# Service Manual

Mational/Panasonic VHS HQ

VHS-C Movie

General Description
Adjustment Procedures
Block/Schematic Diagrams
Exploded Views/Parts List

NV-MC10 EA/EP AC Adaptor VW-AMC1 EB/A EA/EP



### INTRODUCTION

This service manual contains technical information which will allow service technicians to understand and service this model.

Section 1 presents you with some general information of features and controls, enabling you to become familiar with each function.

Section 2 contributes to your mechanical and electrical adjustment as well disassembly and replacement procedures.

In the case of very common information relating to other models like mechanical adjustments, please refer to each service manual.

Section 3 contains block diagrams which offers you information for checking and understanding each circuit. Schematic diagrams which give you detailed information such as waveforms, voltage data, function e.t.c...

Section 4 contains exploded views and parts list.

Please place orders using the parts list and not the drawing reference numbers.

If the circuit is changed or modified, this information will be followed by supplementary service manual to be filed with original service manual.

### CONTENTS

CHAPTER 1 NV-MC10EG/B/E/EN/A/EA/EM/EP

CHAPTER 2 VW-AMC1EG/B/E/EN/A/EA/EM/EP

#### **IMPORTANT**

Your attention is drawn to the fact that recording of pre-recorded tapes or discs or other published or broadcast material may infringe copyright laws.

### WARNING

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

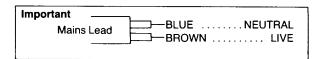
### VHS-C Movie NV-MC10

- The rating plate is on the bottom side of the VHS-C Movie.
   AC Adaptor VW-AMC1
- •The rating plate is on the bottom panel of the unit.
- •This apparatus was produced to BS 800:1983.

### FOR YOUR SAFETY

AC MAINS LEAD CONNECTION. (VW-AMC1 U.K. model only.)

The wires in the mains lead of this apparatus are coloured in accordance with the following code.



As the colours of the wires in the mains lead may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

# VHS-C Movie NV-MC10 EG/E B/A EA/EP



### **SPECIFICATIONS**

ITEM	SPECIFICATION	ITEM	SPECIFICATION	
POWER.	Source: BATTERY; DC 9.6 V Consumption; Recording mode; 8.3 W		HEAD: 1 Stationary head (Normal Audio)	
FOWER	(Battery operation)	AUDIO	INPUT: MIC IN (M3); -70 dB, 4.7 kΩ unbalanced	
RECORDING SYSTEM	4 rotary heads, helical scanning system PAL		OUTPUT: 8 PIN CONNECTOR; -8dB 1kΩ unbalanced	
TAPE FORMAT	VHS-C Cassette Tape (Tape width 12.7 mm)	WEIGHT	Approx. 1.22kg (without Battery Pack)	
	SP mode: 23.39 mm/s LP mode: 11.70 mm/s	DIMENSIONS	120.5(W)×150.5(H)×274.5(D) mm	
TAPE SPEED	Record/Playback Time SP mode: 30 min. with NV-EC30HG LP mode: 60 min. with NV-EC30HG FF/REW Time less than 3 min. with NV-EC30HG		1 pc. AV Output Cable 1 pc. AC Adaptor (VW-AMC1EG/B/E/EP/EN/EA/EM) 1 pc. Battery Pack (VW-VBC1E/EN) for NV-MC10EG/B/E/EP/A/EA 2 pc. Battery Pack (VW-VBC1EN)	
	PICK-UP ELEMENT: CCD (Charge Coupled Device)		for NV-MC10EM  1 pc. Shoulder Strap  1 pc. AC Plug Adaptor for NV-MC10EM only  1 pc. RF Adaptor (VW-RFC1E/EN/A/EA)  1 pc. Battery for Clock	
	STANDARD ILLUMINATION: 1,400 lux	ACCESSORIES		
	MINIMUM REQUIRED ILLUMINATION: 15 lux			
CAMERA	LENS: Built-in 6:1 Power Zoom Lens with MACRO Function, Auto Iris, Auto Focus System, F1.2 (9~54 mm), Filter Diameter/ $\phi$ 49 mm		1 pc. VHS-C Cassette Adaptor (VW-TCA1E/EN) 1 pc. System Carring Case (VW-SHMC1E/EN) 1 pc. VHS-C Cassette Tape (NV-EC30HG/NV-EC30HGEN) 1 pc. Charactor Generator (VW-CG1E/EN)	
	VIEW FINDER: 2/3" B/W Electric View Finder	SECTION OF SECURITY	1 pc. Car Battery Cord (VW-ACC5) 1 pc. Handgrip (VW-GPC1)	
	WHITE BALANCE: Auto White Balance/ Indoor/Outdoor	Tarata Salah	1 pc. Soft Case (VW-CB1) 1 pc. Pause Remote Control Unit (VW-RM1/VW-RM1EN)	
	HEADS: 8 rotary heads, 1 flging erase head			
VIDEO	OUTPUT: 8 PIN CONNECTOR; 1.0 Vp-p 75Ω terminated			

Weight and dimensions shown are approximate. Specifications are subject to change without notice.

### **CONTENTS**

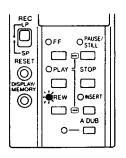
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# **Technical Information**

### 1. SELF-DIAGNOSING SYSTEM

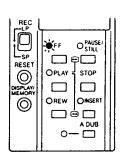
The microprocessor IC601 (uPD75108G) has the programme for Self-diagnosing system, which provides a great deal of service information for quick troble-shooting. If undsirable condition happen to the unit, the LEDs start to flash in different combination depending on the fault as shown in Fig. 1.





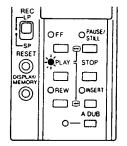
No supply Supply Reel Sensor input

### T-REEL LOCK



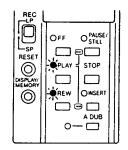
No supply Takeup Reel Sensor input

#### CYLINDER LOCK



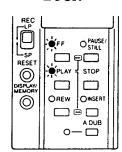
No supply Head Amp Switch input

#### UNLOADING LOCK



No rotation of Loading motor in unloading direction

### LOADING LOCK



No rotation of Loading motor in

### Note:

Connect the Diode between Pin2 and Pin1 as shown below.

### P6302

Diode is not specified

СОМ	1	H
TEST 1	2	
TEST 2	3	

### 2. SERVICE CAUTION

### 1. Servicing the VTR Section

Remove Cabinet Parts and VTR C.B.A.s in the order described in the Disassembly Section and place them as shown in Fig. 2.

Connection of the Extension Cables (A) (VFKS0067), (B) (VFKS0068), (C) (VFK0429), (D) (VFKS0068), (E) (VFK0430), Y/C Separator Connection Cable (VFKS0074) and Y/C Separator (VFK0304) are necessary for servicing.

### Note:

- When unplugging or plugging in connectors use extreme caution.
- (1) Connects the Extension Cable (A) (VFKS0067) between P2001 on the Main C.B.A. and P2601 on the Drive C.B.A.
- (2) Connects the Extension Cable (B) (VFKS0068) between P6002 on the Main C.B.A. and Full Erase Head Cable.

- (3) Connects the Extension Cable (C) (VFK0429) between P3502 on the Main C.B.A. and P5502 on the SP Head Amp C.B.A.
- (4) Connects the Extension Cable (D) (VFKS0068) between P6002 on the Main C.B.A. and Cassette Down Detection Cable.
- (It use only Recording Mode)
  (5) Connect the Y/C Separator (VFK0304) to the Extension Cabel (P1002) using the Y/C Separator Connection Cable (VFKS0074).
- (6) When accessing the Recording Mode, connect a jumper between Pin 1 and Pin 2 of P6006 on the Main C.B.A.
- on the Main C.B.A.

  (7) When using the Y/C Separator (VFK0304), connect Pin 4 of P1002 to GND through a resistor (180ohm) to stabilize the video signal.

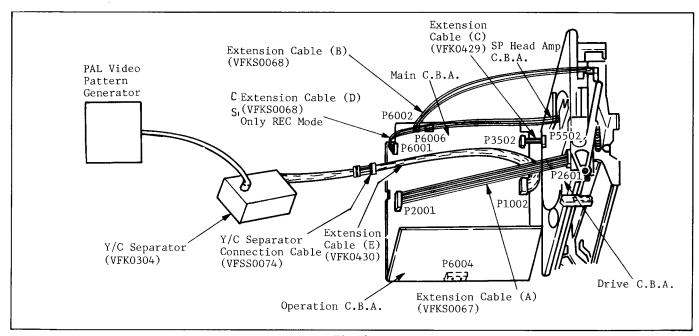


Fig. 2

### 2. Servicing the Camera Section

When servicing the Camera Section, connection of the Extension Cable (F) (VFK0380) and extension Cable (G) (VFKS0060) are necessary as shown in Fig. 3.

- Connects the Extension Cable (F) (VFK0380) between B302 on the Process C.B.A. and B201 on the Sensor C.B.A.
- (2) Connects the Extension Cable (G) (VFKS0060) between BA305 on the Process C.B.A. and Zoom Motor Unit.

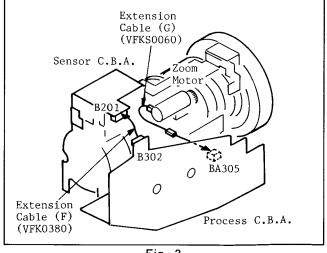


Fig. 3

### 3. How To Use Camera Holder Arm (VFK0431)

This Camera Holder Arm which is adjustable the span must be mounted to VFK0382 (Camera Holder of NV-M5) and it can be used with VFK0432 for camera adjustments or checking for NV-MC10.

--- VFK0432 Holder Spacer (2pcs.) --- VFK0431 --- XSN26+18 --- VFK0382 Camera Holder Arm Screw (2pcs.) Camera Holder

 Fix the Holder Arm (4) and (5) temporarily by screw (1) as shown in Fig. 4.
 Mount the Camera Holder Arm (B) to the Camera Holder (D) by screws (2) and (3) as shown in Fig. 5.

(3) Tightn the screws (C) with the Holder Spacers (A) as shown in Fig. 4.

4. How To Connect the Y/C Separator snd Y/C Separator Connection Cable

When the Y/C Separator Connection Cable (VFKS0074) is used to connect to Y/C Separator the caution should be paid the following items:

\*Cut off the marked portion of Y/C Separator output connector as shown in Fig. 6.

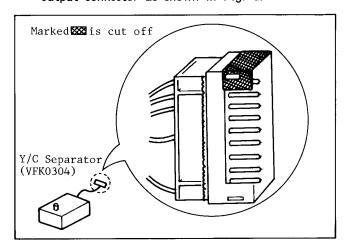


Fig. 6

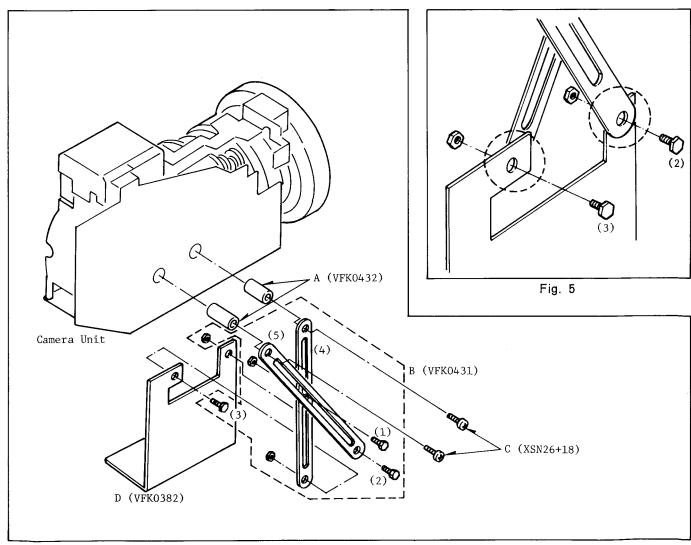


Fig. 4

### 5. Set Tracking Control to the Fixed position

If the Tracking Control is required to be in the fixed (neutral) position, push both of the tracking Control Up/Down Switchs, on the Main fixed (neutral) C.B.A., in at the same time in Playback Mode.

### 6. Manual Eject-Tape in and Carriage closed

(1) Remove Cassette Cover by removing 2 Screws.(2) Push on upper end of Lock Lever to release cassette carriage.

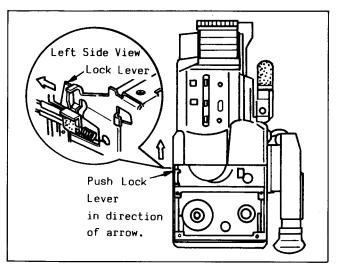


Fig. 7

### 7. Elimination of Tape slack

Before inserting the Cassette Tape in the VHS-C Movie, take up slack in the tape by turning the Takeup Tape Gear on the side of the Cassette Tape. Turn it in the direction of the arrow until no clock is suident and appeals a suident and appeals to the side of the side o slack is evident and opposite reel begins to turn.

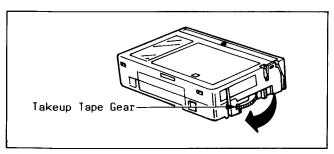


Fig. 8

### 8. Insertion (or Removal) of cassette Tape

As in Fig. 5, hold the tape vertically with fingers and thumb to insert or remove the tape. (Be sure to eliminate slack before inserting the tape.)

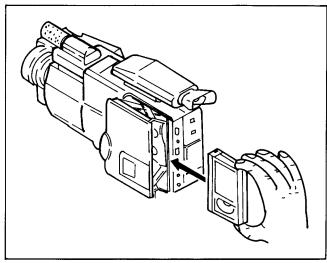


Fig. 9

Connection of the Flexible Cables to Trap Connectors

#### a. Removal

1. On the trap Connector, pull out on both ends of the Locking Tab surrounding the cable end to release the Trap on the Connector. Then pull flexible Cable out to remove as shown in Fig.

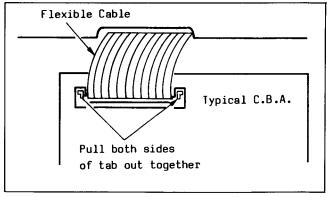


Fig. 10

### b. Installation

- insert the end of the Flexible Cable into the Trap Connector so it lays smoothly across the slot.
- 2. Press the middle of the cable firmly against
- the Trap Connector slot, and hold it securly.
  Without pinching the Cable, press the Locking
  Tabs in against the Trap Connector until both ends snap into their locked positions.
- 4. Pull lightly on the Cable to check for positive connection.

### Note:

Take care when removing or installing the Flexible Cable to prevent Cable damage.

### 10. Service of Operation Bracket Unit

When removing of reinstalling the Operation Bracket Unit and Switch Cover, first install the Switch Cover over the Operation Key portion (CAMERA MODE) of the Operation Bracket Unit, and then install assembly parts.

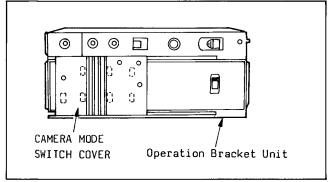


Fig. 11

### 11. How to read the Disassembly/Assembly

### (For Cabinet Part)

Step Part		REMOVAL		
/Loc No.		Fig. No.	Remove *UNLOCK/RELEASE/ UNPLUG/UNCLAMP /UNSOLDER	Note
1	Top Case	D2	2(S-1),*Connector	
1	3	(3)	6	

### (For Mechanical Part)

STEP	START-	PART	REMOVAL		INSTALLATION
/LOC No.	ING No.		Fig. No.	REMOVE *UNHOOK/UNLOCK/RELEASE	ADJUSTMENT #CONDITION
①	1	GROUNDING B	M27	*Shield Case—Top, *Connector Pl3, (S–1)	
2	1	D.D.  B	M27	3(S-2), Connectors	See, Replacement of D.D. Cylinder Unit.
3	3	TAKEUP   T REEL GEAR	M26,28	(C-1), <note 1=""> (W-1)</note>	(+)
1	2	3 4	) (3)	6	9

1: Order of steps in Procedure.

When ressembling, perform the step(s) in the reverse order. These numbers are also used as the identification (Location) No. of parts in Figures.

2 : Starting No. followed by corresponding part which can be removed at this stage.

3 : Part to be removed or installed.

4: Location of part
T = Top B = Bottom
5: Fig. No. showing Procedure.

: Indentification of part to be removed, unplugged,

C = Cut Washer R = Retaining Ring

S = Screw

W = Washer

\* = Unhook, unlock or release
3(S-2) = 3 Screws (S-2)
7 : Adjustment information for installation.

# = Condition for adjustment.
(+) = Refer to Exploded Views for Lubricat Information.

= Remark

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	_		
	CLEU	TRICAL REPLACEMENT PARTS LIST	

# SECTION 1 GENERAL DESCRIPTION

### 1. HOW TO USE VHS-C MOVIE

### 1-1. FEATURES

#### 1. Piezo Auto Focus

The focus is always automatically and precisely adjusted under all shooting situations. There is no need to manually adjust the focus; manual focus adjustment is also possible.

### 2. LP Mode for Doubled Recording Time

It extends the maximum recording time to a full 1 hour.

### 3. Cue & Review Playback

Convenient for fast-forwarding or rewinding the tape while watching the picture.

### 4. Compact, Lightweight and Super-Portable

With a weight of only 1.22kg, the VHS-C Movie is handy to use and carry along.

### 5. 3-Way Power Supply

The VHS-C Movie can be operated on 3 different power sources; rechargeable battery pack, AC adaptor or car battery cord.

### 6. Auto White Balance

The white balance is fully automatically adjusted and continuously readjusted to any changes in illumination during shooting. Manual adjustment is also possible.

### 7. Alarm Indications

Various warning indications prevent operating mistakes and always assure successful results.

### 8. 6× Power Zoom Lens

Powerful, smooth zooming between wide-angle and telephoto is simple with convenient push-button control.

### 9. High Speed Shutter Function

This function makes it possible to catch even super-fast action with sharp contours and amazing detail.

### 10. Audio Dubbing Function

The Audio Dubbing function allows replacing the originally recorded sound with narration, back-ground music or special sound effects.

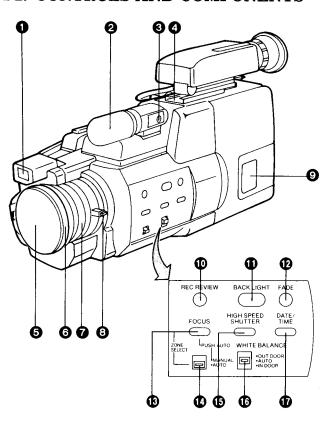
### 11. Insert Editing

Insert Editing (or Insert Recording) is handy for editing tapes by inserting new scenes into an already recorded video tape.

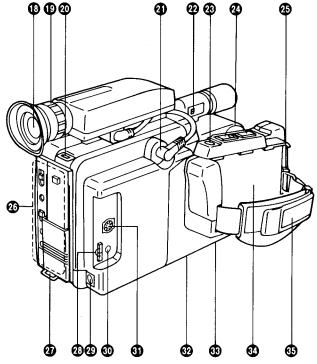
### 12. HQ (High Quality) Picture System

Video recorders carrying the HQ symbol mark feature the new VHS High Quality Picture System. This system assures complete compatibility with VTRs that use the conventional VHS system.

### 1-2. CONTROLS AND COMPONENTS



- White Balance Sensor Window
- 2 Built-in Microphone
- 3 Extrnal Microphone Socket
- 4 Accessory Shoe
- 6 Lens Cap
- 6 Lens Hood
- Focus Ring
- 8 Manual Zoom Lever with Macro Button
- Cassette Compartment
- Rec Review Button
- Back Light Button
- P Fade Button
- Focus Adjusting Button/Zone Selector
- 14 Focus Mode Selector
- 15 High Speed Shutter Selector
- 16 White Balance Mode Selector
- 1 Date/Time Selector



Trunction of the Camera/VTR Operation Selector Cover

Before starting camera recording, slide this cover close to conceal the Tape Running Buttons and render them inoperative.

O<sub>STILL</sub>

STOP

OINSERT

6

7

8

-(13) -(14)

For playback, audio dubbing, tape copying and other VTR operations, slide this cover up. This renders the Start/Stop Button and other operation controls for camera recording inoperative.

- B Electronic Viewfinder
- 19 Eyepiece Corrector Control
- Metal Fitting for Shoulder Strap
- EVF Terminal
- 2 Microphone Sensitivity Selector
- Start/Stop Button
- 2 Power Zoom Control Buttons
- 25 Battery Locking Lever
- **26** General Operation Controls
- 2 Metal Fitting for Shoulder Strap
- 23 Tracking Up/Down Buttons
- 2 DC Input Socket
- Remote Control Socket
- Adaptor Socket
- Tripod Receptacle
- 3 Battery Compartment for Auto Date/Clock
- 3 Battery Holder
- 3 Grip Belt

- 1 Operation On/Off Switch
- ② Eject Button

**139** General Operation Controls

REC

L<sub>SP</sub>

(O)

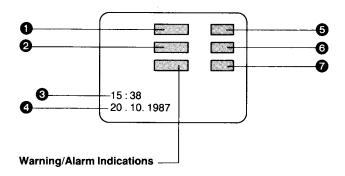
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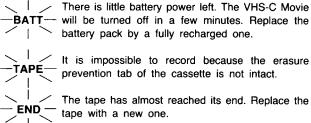
4

- ③ Recording Speed Selector
- 4 Reset Button
- (5) Display Button
- (6) Edit Switch
- (7) Camera/VTR Operation Selector Cover
- (8) Fast Forward/Cue Button
- Pause/Still Button
- 10 Play Button
- (1) Stop Button
- (12) Rewind/Review Button
- (13) Insert Button
- (14) Audio Dubbing Button

### 1-3. ELECTRONIC VIEW FINDER

The following indications are displayed in the Electronic Viewfinder (EVF) to inform you of the operating conditions of the VHS-C Movie.





When condensation has formed inside the VHS-C
 Movie, the "DEW" indication will flash and a few seconds later, the unit will turn itself off.

### Remaining Battery Power Indication

**E**---**F** The "-" indications begin to disappear from right to left as the power of the battery pack weakens.

**2** Counter Indication

M0123 Tape Counter 1 2:34 Lap Time Counter

- Clock Indications
- Date Indications
- 6 Recording/Insert Indication

REC Recording
Recording Pause
INST Insert
Insert Pause

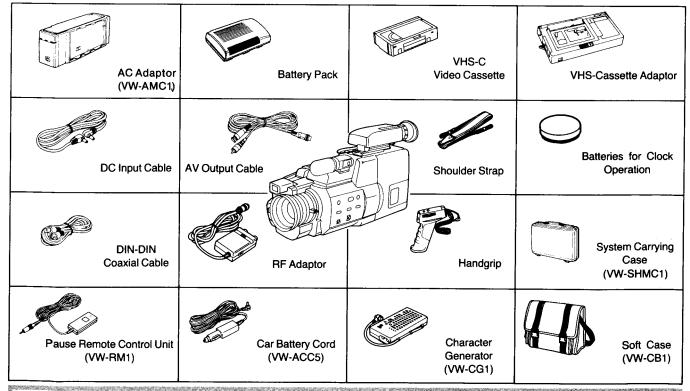
**6** Recording Mode Indication

SP SP mode LP mode

Manual White Balance Indication
 OUT OUTDOOR IN INDOOR
 High Speed Shutter Mode Indication
 1/500 1/500 sec.
 1/1000 1/1000 sec.

 Some of the above indications may light up alternately at the same place in the EVF to indicate the corresponding operating condition or warning.

### 1-4. VHS-C MOVIE SYSTEM ACCESSORIES

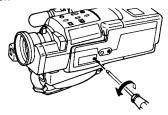


CAUTION: TO PREVENT FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

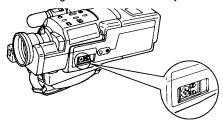
# 1-5. SETTING OF THE DATA AND CLOCK & RECORDING THE DATE/CLOCK INDICATIONS

### How to insert the Battery for the Clock Operation

Remove the lid on the bottom of the VHS-C Movie with a (+) screwdriver.



- ② Insert the "LR1130" size battery with the polarities (⊕ and ⊖) aligned correctly and then replace the lid.
  - •The clock starts working as soon as the battery is inserted.

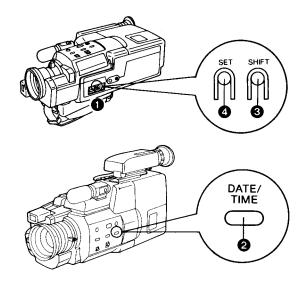


The "LR1130" size battery (supplied) is necessary for the operation of the built-in digital clock, and to memorize the Date/Clock and the Tape Counter Indications when the VHS-C Movie is turned off.

### **CAUTION FOR BATTERY REPLACEMENT**

- •The life of the battery is about one year, however, it depends on the frequency of use. Inspect and if necessary, replace the battery once a year.
- ullet Load the new battery with their polarities ( $\oplus$  and  $\ominus$ ) aligned correctly.
- •Do not apply heat to battery, or internal short-circuit may occur.
- •Remove spent battery immediately and dispose of it.

#### Setting of the Date and Clock



- ① Open the lid of the Battery Compartment.
- When the Date/Time Selector is pushed, the indication shown on the right will appear in the EVF.



- •If no battery is inserted, the indication "PLEASE SET BATTERY" will light up. In this case, insert the battery.
- When the Shift Button is pushed, the flashing portion will be changed in the following sequence.

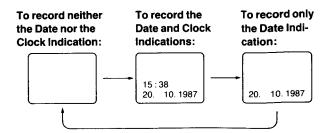
4 When the Set Button is pushed, the flashing portion displayed will be changed in the following sequence.

YEAR: 1987→1988→	→2086
MONTH: 1→2→	→12
DATE: 1→2→	→31
HOUR: 0→1→	→23
MINUTÉ: 00→01→	→59

- •Repeat procedures 3 and 4 until all five items have been set.
- Once the time and date are set, press the Shift Button in response to a precise time signal so that the clock may begin to function.

### Recording the Date/Clock Indications

When the Date/Time Selector is pushed repeatedly, the indication will change in the following sequence.



### **SECTION 2** ADJUSTMENT PROCEDURES

### 2-1. DISASSEMBLY METHOD

### 2-1-1. DISASSMBLY FLOW CHART

This flow chart indicates the disassembly steps of the cabinet parts and the P.C. Boards in order to gain access to item(s) to be serviced. When re-assembling, perform the step(s) in the reverse order.

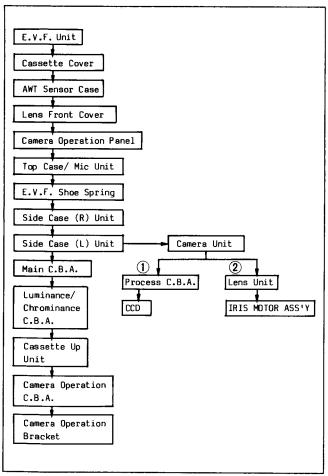


Fig. D1

### Note:

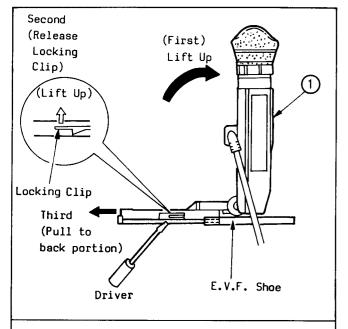
- a. When removing the cabinet, work with care so as not to break the locking Portions.
  b. Place a cloth or some other soft material under the P.C. Boards or Unit to prevent damage.
- connectors are connected and ele reinstalling, electrical components have not been damaged.
- d. Do not supply power to the Unit during disassembly.

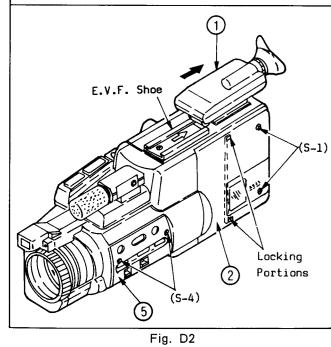
### 2-1-2. VTR SECTION

Γ	1	<del></del>		
Step	Part		REMOVAL	
/Loc No.			Remove *UNLOCK/RELEASE/ UNPLUG/UNCLAMP /UNSOLDER	Note
1	E.V.F. Unit	D2	*Connector	1
2	Cassette Cover	D2	2(S-1),	
3	AWT Sensor Case	D3	2(S-2)	
4	Lens Front Cover	D3	(S-3)	
3	Camera Operation Panel	D2	2(5-4)	
6	Top Case/ MIC Unit	D4	2(S-5), *Connector, *Locking Portions	2
7	E.V.F. Shoe Spring	D4	(S-6)	3
8	Side Case (R) Unit	D4, D5	2(S-7),(S-8), 3(S-9), *Connectors	
9	Side Case (L) Unit	D6	2(S-10),(S-11), *Connectors	
10	Main C.B.A.	D7	3(S-12), (L-1), *Connectors	4
11)	SP Head Amp C.B.A.	D7	(S-13),(S-14), *Connector, spacer	
12	Luminance/ Chrominance C.B.A.	D7, D8	*(L-2), (L-3), *Connectors *U-Notches	5
[]	Cassette Up Unit	D9	2(S-15)	6

Step	Part	REMOVAL			
/Loc No.		Fig. No.	Remove *UNLOCK/RELEASE/ UNPLUG/UNCLAMP /UNSOLDER	Note	
14)	Camera Operation C.B.A.	D6	(S-16), Connectors		
15	Camera Operation Bracket	D6		7	

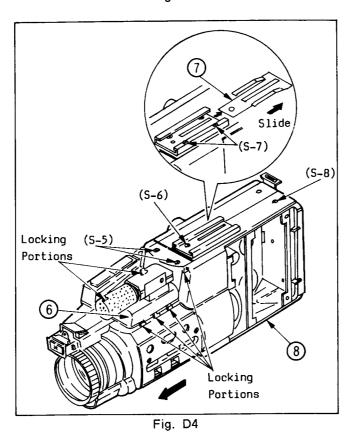
List of Abbreviations: 2(S-1) = 2 Screws (S-1), (L-1) = Locking Tab (L-1)





(S-2) \(S-3) Bottom

Fig. D3



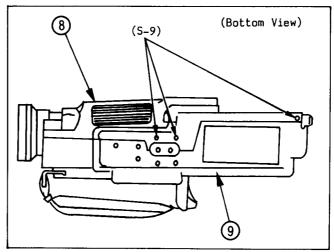
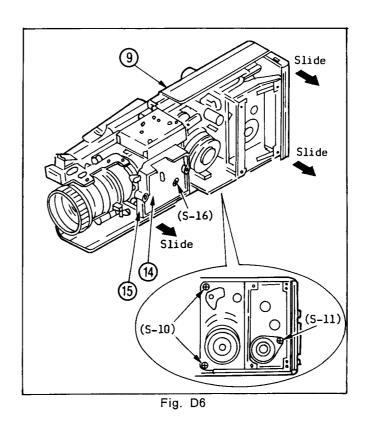
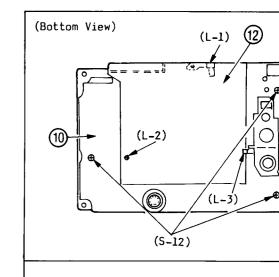


Fig. D5





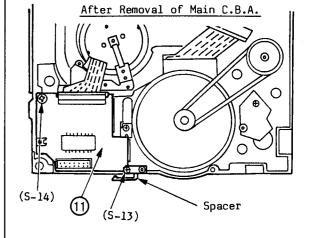


Fig. D7

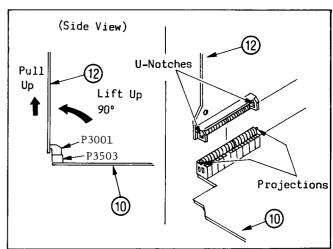


Fig. D8

Left Si (S-15) Casse Stand S Uni

Reference 1. In

1. In rear 2. Slid rem 3. Afte Shoot 4. Whe Amp from 5. (Ren 1)

2)

6. 1) 2)

7. 1)



(S-8)

ions

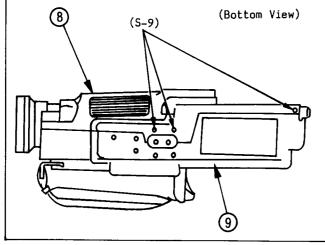
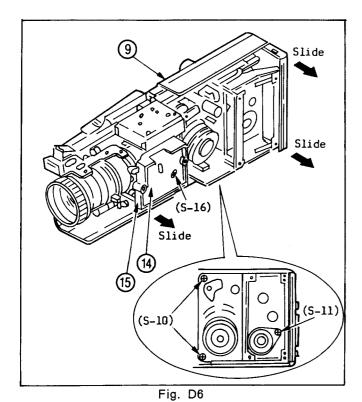


Fig. D5



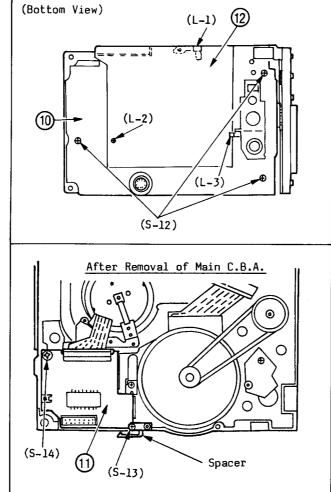


Fig. D7

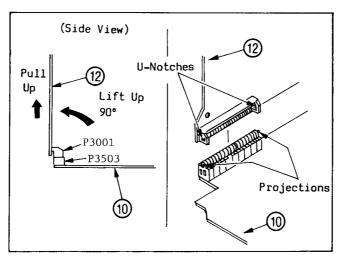


Fig. D8

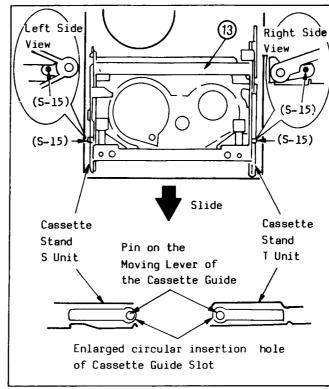


Fig. D9

- Reference <Notes> in Table 2-1:
  1. In Fig. D2, slide the E.V.F. Unit to the rear as shown by the arrow.
  - Slide the top Case to the front portion to remove as shown by the arrow.
     After removing Screw (S-6), slide the E.V.F.

  - Shoe Spring to the rear as shown in Fig. D4.

    4. When opening the Main C.B.A., hold the Head Amp I Ass'y downward to prevent the P.C.B. from cracking and the screw from loosening.
    5. (Removal of Luminance/Chrominance C.B.A.)
  - 1) Release 2 Locking Tabs (L-2) and (L-3) in Fig. D7. And place the Luminance/Chrominance C.B.A. as shown in
  - Fig. D8.

    2) Pull Luminance/Chrominance C.B.A. in the direction indicated by the arrow.

    \*Do not pull Luminance/Chrominance C.B.A. C.B.A.'s when are not placed

  - when C.B.A.'s are not placed horizontally.

    6. 1) The 2 Screws (S-15) are located on the side of the Cassette Up Unit.

    2) Slide the Cassette Up Unit in direction of arrow and release the pins on the moving Levers of the Cassette Up Unit from the enlarged circular insertion hole at end of the Cassette Guide slot. at end of the Cassette Guide slot.
  - 7. 1) When removing Camera Operation Bracket, slide carefully in the direction shown by the arrow in Fig. D6.

### 2-1-3. CAMERA SECTION 1

Step	Part		REMOVAL	
/Loc No.		Fig. No.	Remove *UNLOCK/RELEASE/ UNPLUG/UNCLAMP /UNSOLDER	Note
1	Camera Unit	D10,	2(S-1), * P304	
2	Process C.B.A.	D11, D13, D14		
3	AF C.B.A.	D12, D14	3(S-3) Connectors *P601, *P602, *P603, *P604	
4	CCD Drive C.B.A.	D13,	4(S-4), Sensor Shield Case 2(S-7), Connector *FP201	
<b>③</b>	Actuator Ass'y	D13,	3(S-6), Sensor Frame(1) 3(S-8)	
6	CCD Ass'y	D17	2(S-9)	1

List of Abbreviations: 2(S-1) = 2 Screws (S-1)

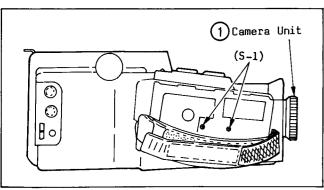


Fig. D10

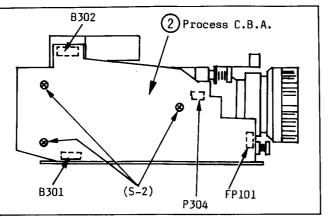


Fig. D11

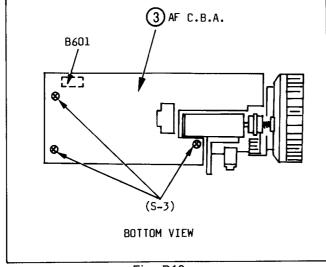
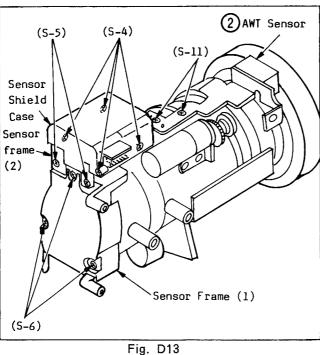


Fig. D12



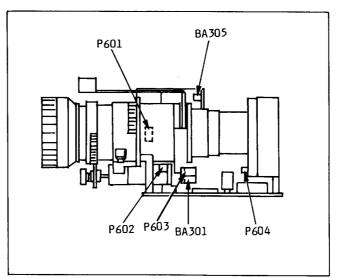


Fig. D14

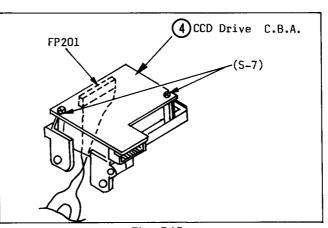
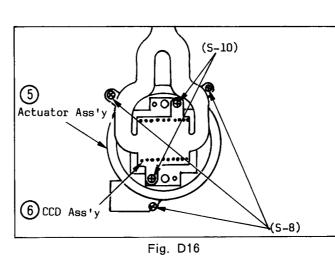


Fig. D15



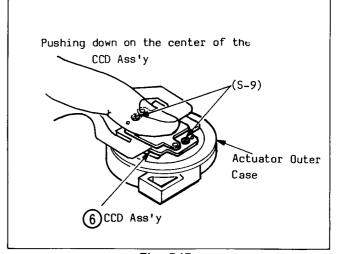


Fig. D17

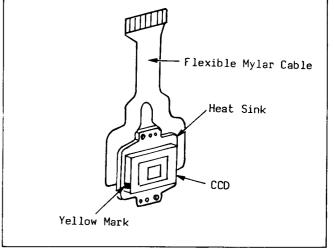


Fig. D18

Reference's <Notes> in Table 2-2:
(1-1) Put the CCD Ass'y and the Actuator
Ass'y on the worktable.
(1-2) Do not touch the CCD window surface.

(1-3) Do not touch the Actuator Outer Case during removal or installation of the CCD Ass'y.

### Installation of CCD Ass'y

To complete the reassembly, reverse the previous disassembly steps.

Parts to be replaced related to the CCD Ass'y

The CCD Ass'y, Heat Sink and Flexible Mylar Cable are available. The CCD by itself is not available because it is a part of the CCD Ass'y.

 (1-1) If the CCD is damaged, replace its Ass'y with a new CCD Ass'y.
 (1-2) If the Flexible Mylar Cable or the Heat Sink is damaged, but the CCD is normal, replace the damaged part with a new part. Carefully resolder the lead pins on the CCD. Retighten 2 Screws (S-9) while positioning the CCD in the center of its movable range on Heat Sink Sink.

Flexible — Mylar Cable

(1) Do not app or resoldering

After rea reinstall it (3) Position the picture on t

Check that horizontal.

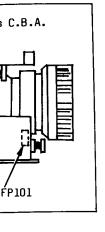
(5) If it is not,

Note:

There is a Y Mylar Cable cable is locate

[Example]
If the pictor loosen 2 Sc D19-2, turn the picture's (S-10).

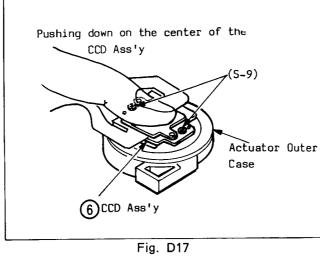


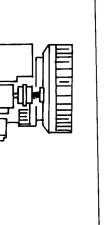


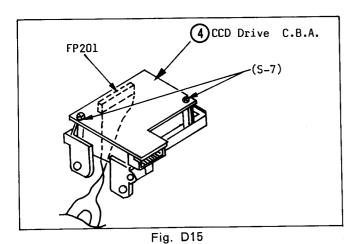
BA305 P601 P602 P603 BA301 P604

Fig. D14

Pushing down on the center of the CCD Ass'y (6)CCD Ass'y







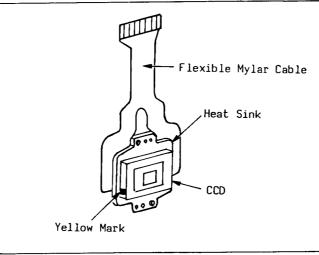


Fig. D18

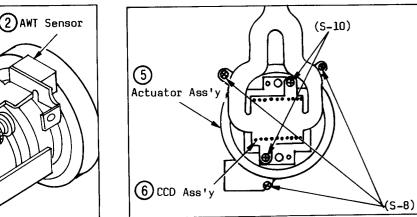


Fig. D16

Reference's <Notes> in Table 2-2: (1-1) Put the CCD Ass'y and the Actuator Ass'y on the worktable.

(1-2) Do not touch the CCD window surface. (1-3) Do not touch the Actuator Outer Case during removal or installation of the CCD

### Installation of CCD Ass'y

To complete the reassembly, reverse the previous disassembly steps.

Parts to be replaced related to the CCD Ass'y

The CCD Ass'y, Heat Sink and Flexible Mylar Cable are available. The CCD by itself is not available because it is a part of the CCD Ass'y.

(1-1) If the CCD is damaged, replace its Ass'y with a new CCD Ass'y.

(1-2) If the Flexible Mylar Cable or the Heat Sink is damaged, but the CCD is normal, replace the damaged part with a new part. Carefully resolder the lead pins on the CCD. Retighten 2 Screws (S-9) while positioning the CCD in the center of its movable range on Heat Sink.

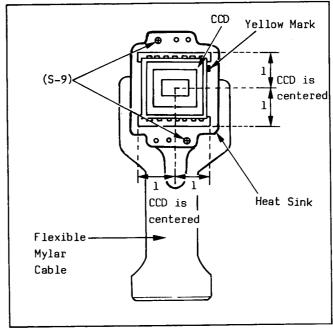


Fig. D19-1

- Do not apply heat to the CCD when unsoldering or resoldering.
- After reassembly of the CCD Assembly, reinstall it in the repaired camera.
- Position the camera horizontally and project a picture on the Video Monitor.
- Check that the picture on the Video Monitor is horizontal.
- (5) If it is not, repeat steps 1-2.

(S-10).

There is a Yellow Mark on the CCD. The Flexible Mylar Cable should be installed so that the cable is located on that side.

[Example] If the picture is tilted down to the right, loosen 2 Screws (S-10), refer to Fig. D16 and D19-2, turn the CCD counterclockwise to correct the picture's tilt and then retighten 2 Screws

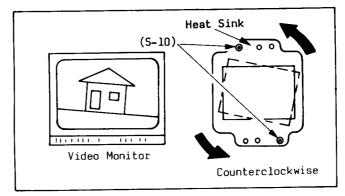


Fig. D19-2

- After replacement of the CCD, readjust the following controls.
- - BACK FOCUS ADJUSTMENT CCD OUTPUT ADJUSTMENT BLOOMING (SMEARING) ADJUSTMENT AUTO IRIS ADJUSTMENT
- AGC ADJUSTMENT
  PEDESTAL LEVEL ADJUSTMENT
  YH LEVEL ADJUSTMENT
  CARRIER BALANCE AND BLACK PEDESTAL ADJUSTMENT
- WHITE BALANCE ADJUSTMENT COLOR PHASE AND R-Y/B-Y GAIN
- **ADJUSTMENT**
- HIGH INTENSITY SUPPRESS ADJUSTMENT AUTO WHITE BALANCE MODE ADJUSTMENT LOW LIGHT INDICATION ADJUSTMENT AWT MODE ADJUSTMENT

- H-OSC ADJUSTMENT

- FOCUS ADJUSTMENT
  CENTERING ADJUSTMENT
  V. SIZE ADJUSTMENT

- BRIGHTNESS ADJUSTMENT
  AF GATE ADJUSTMENT
  F VALUE BIAS GAIN ADJUSTMENT
  AF VH FREQUENCY ADJUSTMENT
- Before reinstalling, clean the IR Cut Filter with Lens Cleaning Materials. If the Crystal Filter Plate is removed from the front of the CCD Assembly, replace it with the IR Cut Section (Blue portion) positioned toward the CCD Ass'y. Ensure that the Filter Rubber is mounted on Item 22 before installation of Item 22.

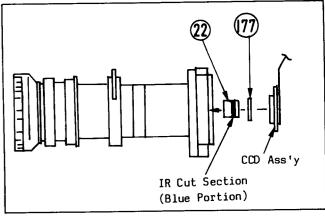


Fig. D20

### 2-1-4. CAMERA SECTION 2

Step	Part	REMOVAL			
/Loc No.		Fig. No.	Remove *UNLOCK/RELEASE/ UNPLUG/UNCLAMP	Note	
1	Zoom Motor/ AF Motor	D21	4(S-1)		
2	AWT Sensor	D13	2(S-11)		
3	IRIS Motor Unit	D22	(S-2)		

List of Abbreviations: 4(S-1) = 4 Screws (S-1)

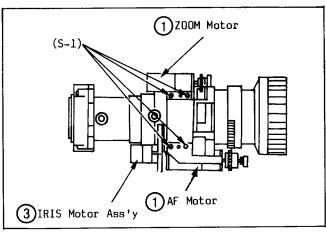


Fig. D21

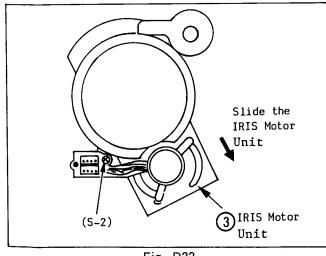


Fig. D22

### 2-1-5. E.V.F. SECTION

Step	Part	REMOVAL			
/Loc		Fig. No.	Remove *UNLOCK/RELEASE/ UNPLUG/UNCLAMP	Note	
1	Bottom Case	D23	2(S-1), (S-2) Cable Holder		
2	CRT Ass'y	D24			
3	DY Ass'y	D25	CRT Socket		

List of Abbreviations: 2(S-1) = 2 Screws (S-1)

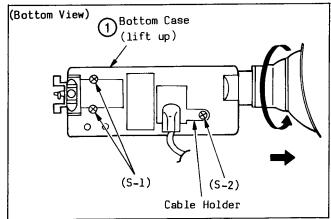


Fig. D23

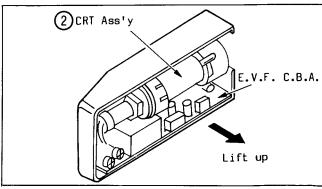


Fig. D24

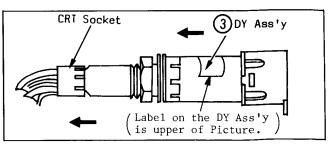


Fig. D25

### 2-2. PROCEDURE FOR CLEANING UPPER CYLINDER UNIT

Position the Video Head to permit access for cleaning, and hold the Upper Cylinder to keep it from turning while cleaning.
 Gently rub the Video Head in the direction of tape travel with a Head Cleaning Stick (VFK27)

moistened with Freon TF.

(3) Repeat for the other Video Heads.

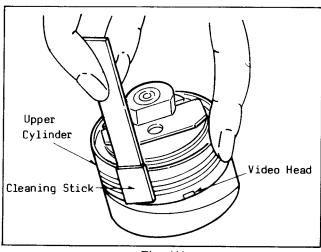


Fig. U1

### Note:

Do not rub vertically.

(2) Do not apply any pressure to the head. If the contaminant is not easily removed, continued gentle wiping will usually remove

### 2-3. REPLACEMENT AND ADJUSTMENT **PROCEDURES**

### 2-3-1. REPLACEMENT OF UPPER CYLINDER UNIT

Work with extreme care when removing or replacing the Upper Cylinder Unit. Do not touch Video Heads and Flying Erase Head.

## Removal of Upper Rotary Transformar (\$) Unit

Remove 2 screws (A) and Upper Rotary Transformar (S) Unit.

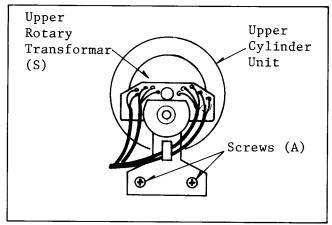


Fig. M1

### Removal of Rotaly Transformar (R) Unit

- (1) Unsolder 8 Lead Pins (B).(2) Remove 2 screws (C).(3) Remove Rotary Transformar (R) Unit.

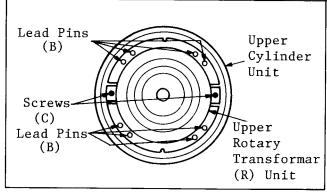


Fig. M2

### Removal of Upper Cylinder Unit

(1) Unsolder 10 Lead Pins (D).(2) Remove 2 screws (E) and gently lift the Upper Cylinder Unit from the Shaft.

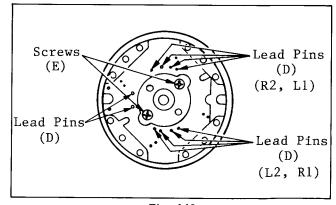


Fig. M3

### Cleaning of D.D. Cylinder Shaft and the surface

(1) Before reinstalling a new unit, clean the D.D. Cylinder Shaft and the surface that engages with the Upper Cylinder, with a soft cloth dampened with Freon TF in Fig. M4.

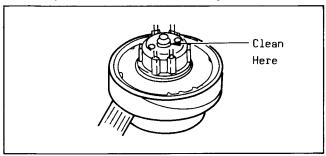


Fig. M4

### Replacement of Upper Cylinder

- (1) Install the new Upper Cylinder Unit carefully so that the white portion of D.D. Cylinder Unit is properly aligned with white portion of Upper Cylinder Unit. For details on the installation position, refer to Fig. M5.
- (2) Tighten the 2 screws (E) and solder 10 Lead Pins (D).

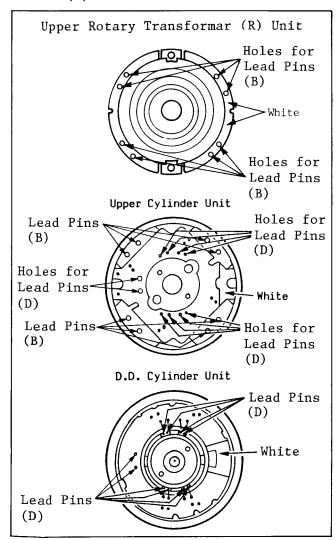


Fig. M5

### Reinstallation of Rotary Transformar (R) Unit

- (1) Reistall the Rotary Transformar (R) Unit carefully so that the white portion of Upper Cylinder Unit is properly aligned with white portion of Rotary Transformar (R).
- (2) Tighten the 2 screws (C) and solder 8 Lead Pins (B).

### Reinstallation of Upper Rotary Transformar (S) Unit

- (1) Befor reinstalling a Upper Rotary Transformar (S) Unit, clean the surface of Rotary transformar (R) and Rotary Transformar (S) with a soft cloth.
- with a soft cloth.

  (2) Place the Spacer (Supply with Upper Cylinder Unit) on Rotary Transformar (R). Reinstall the Upper Rotary Transformar (S) Unit so that insert the shaft (Supply with Upper Cylinder Unit) to center of Rotary transformar (S) surely through the center of Upper Rotary transformar (R).

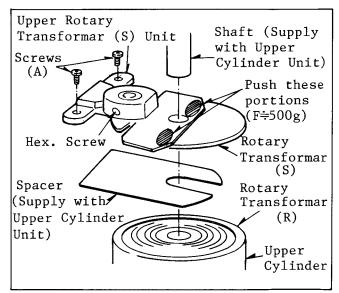


Fig. M6

(3) Tighth the 2 screws (A).(4) Loosen the Hex. Screw (1.2mm).

- (5) Push the Upper Rotary Transformar (S) C.B. (F=500g) and then remove the Shaft and tightn the Hex. Screw.
- (6) Remove the spacer.

### Confirmation of replacement

Confirm the rotarion of Upper Cylinder Unit.

(Upper Cylinder Unit rotate smoothly.)
Insert the Spacer to gap of Rotaly Trans. (It must be smoothly also gap must not be too wide.)

(3) Confirm the selfrecording and Playback picture on LP mode. (Play back picture must not

(4) If condition is no good, review the item No.6 Reinstllation of Upper Rotary Transformar (S) Unit.

After confirmation, perform INTERCHANGEABILITY ADJUSTMENT." "TAPE

### 2-3-2. REPLACEMENT OF CYLINDER UNIT

Work with extreme care when removing or replacing the D.D. Cylinder Unit. Do not touch Video Heads during servicing.

- (1) Remove the Upper Rotary Transformar (S) Unit.
   (2) Unlock Flexible Cables P13 on the Head Amp I Ass'y, and P15 on the Capstan/Cylinder Motor
- Drive C.B.A. (3) Remove Screw (A) and the Grounding Plate.
- Remove 3 Screws (B) and then lift the D.D. Cylinder Unit slowly from the top side.

- (1) Do not pull on the flexible cables coming from the D.D. Cylinder Unit.
- Since there is very little clearance between D.D. Cylinder Unit and Chassis, remove the D.D. Cylinder Unit gently and carefully.

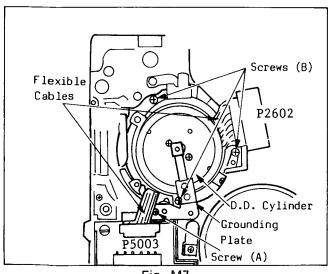


Fig. M7

- (5) Reinstall the Upper Rotary Transformar (S) Unit, refer to the Replacement of Upper Cylinder Unit.
- Reinstall the new D.D. Cylinder Unit on the chassis by reversing the procedure described above.

#### Note:

(1) Upon completion of replacement procedure, confirm performance. If any further maintenance is required, perform "TAPE INTERCHANGEABILITY" with the Alignment Tape (VFM8180H8PF).

#### 2-3-3. REPLACEMENT OF CAPSTAN MOTOR UNIT

- (1) Ensure Unit is in the STOP mode. Remove the Capstan Belt.
- Flexible Cable Unlock P2603 the Capstan/Cylinder Motor Drive C.B.A.

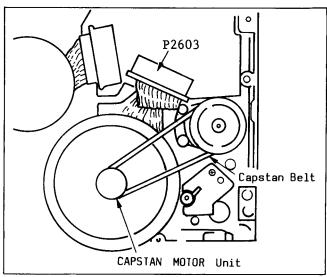


Fig. M8

- (3) Remove the Cassette Up Holder. LP Head Amp, Head Amp Holder and Mode Select Switch Unit.
- Take out the Idler Gear while pushing on the Tape Guide Lever Unit until it clears the Idler Gear Teeth as shown in Fig. M9.

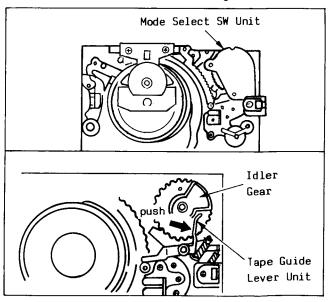


Fig. M9

(5) Remove 2 Screws (B). Then remove Screw (C) while slightly pushing on the Sector Gear Unit to reveal Screw (C) as shown in Fig. M10. Then remove the A/C Head Base Unit.

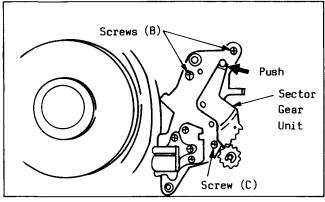


Fig. M10

(6) Remove the Cut Washer and Motor Gear. Then place the Unit in play position completely by rotating Loading Idle Gear clockwise as shown in Fig. M11.

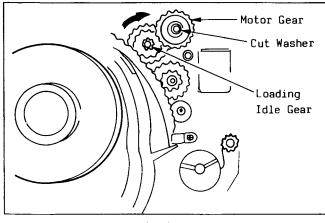


Fig. M11

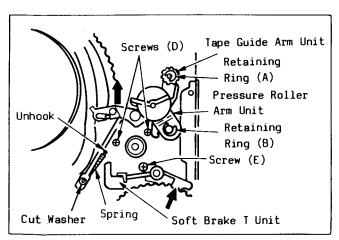


Fig. M12

- (7) Remove Retaining Ring (A) and Tape Guide Arm Unit by pushing it in the direction shown by arrow and lifting it off its Post.
  (8) Remove the Cut Washer and unhook the Spring.
- (9) Remove Retaining Ring (B) and Pressure Roller Arm Unit.
- (10)Refer to the Disassembly/Assembly Adjustment Procedures of Mechanism on page 2-2-16. Use steps 3, 4 and 5 to remove the Takeup Reel Gear, Clutch Gear Unit and Soft Brake T Unit.
- (11)Remove 2 Screws (D) and Screw (E) while pushing slightly on the Soft Brake T Unit.Then remove the Capstan Stator Unit from Bottom Side.
- (12) Replace the new Capstan Motor Unit and then tighten 2 Screws (D) and Screw (E).

### Adjustment of FG Head Gap

- \* Specification: ........ 0.1~0.15mm
  (1) Slightly loosen the 2 screws.
  (2) Put the paper which is used for cover page of this volume into the gap between F.G.Head and Capstan rotor.
- (3) Afer adjustment, tighten 2 screws.

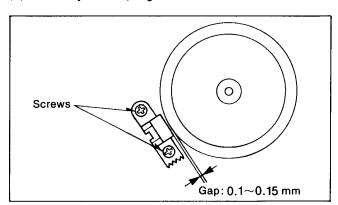


Fig. M12-1

### Note:

Do not touch the surface of rotor and keep any magnetizable material away.

### 2-3-4. ADJUSTMENT OF TENSION POST POSITION

(1) Remove the Cassette Up Unit.
(2) Cover the Tape End Sensor and Cassette Up/Down Sensor with Black Tape.

Push the Play button to complete loading operation sequence.

As soon as loading is completed, disconnect

the AC plug of AC Adaptor. Loosen Screw (F) a little bit and adjust the Tension Adjust Piece (in either direction) as indicated by the arrow so that the center of the Tension Post is 1mm to the left of the center of the S1 Post as shown in Fig. M13. Tighten Screw (F) to secure it.

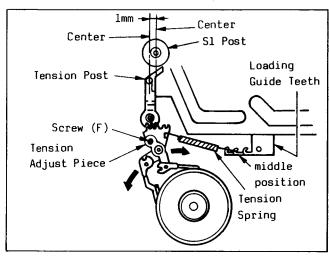


Fig. M13

Note:

After this adjustment, reposition Tension on Loading Guide Teeth to middle Spring position as a Back Tension Adjustment as shown in Fig. M13.

## 2-3-5. HEIGHT ADJUSTMENT OF TAPE GUIDE POSTS (PRELIMINARY ADJUSTMENT)

### Height adjustment of S1 Post

\* Specification: ....... 14.72+-0.1mm

(1) For adjustment of S1 post height, turn 4mm Nut (A) slightly in either direction as necessary to the correct clearance between the upper edge of the lower tape guide on S1 Post and the lower portion of Cassette Stand S Unit.

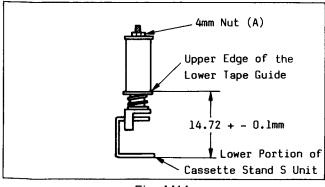


Fig. M14

### Height adjustment of S2 and T1 Posts

Specification:

S2 Post ...... 0.56+-0.1mm T1 Post ...... 0.74+-0.1mm

For adjustment of S2 and T1 post height, loosen the Black Lock Screw located on the lower portion of Posts (S2 & T1) using the Lock Screwdriver .

(2) Turn top of post with Hex. Wrench (1.5mm) slightly in either direction as necessary the correct clearance as shown in Fig. M15.

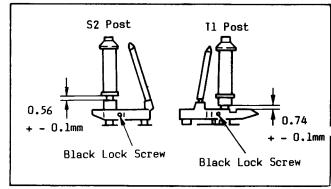


Fig. M15

## 2-3-6. TAPE INTERCHANGEABILITY ADJUSTMENT (FINAL ADJUSTMENT)

Note:

perform these adjustment/confirmation procedures, make sure that the in the fixed Tracking is set Control (neutral) positionby pushing both of the Tracking Control Up/Down Switches, on the Main C.B.A., in at the same time.

adjustment/confirmation Before these procedures, remove the cassette protective Tape Cover from a Cassette Tape or the Alignment Tape (VFM8180H8PF).

Equipment Required: Dual Trace Oscilloscope Alignment Tape ...... (VFM8180H8PF) Hex. Wrench (1.5mm)

### 1. Confirmation of Tape Travel

(1) Play back a cassette tape and confirm that the tape travels without curling at the upper and lower guides on Posts S2 and T1.

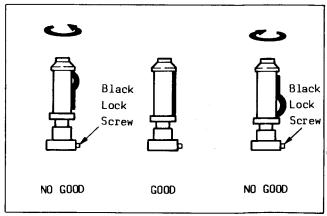


Fig. M16

(2) If curling is apparent, adjust the height of posts by turning the top of Post with Hex. Wrench. (for S2 and T1)

Note:

Before turning S2 and T1, slightly loosen the Black Lock Screw using the Lock Screwdriver.

### 2. Confirmation of A/C Head

This confirmation is required when the A/C Head or Capstan Motor is replaced and for a preliminary height adjustment. For final adjustment, perform items 6-3 and 6-4.

(1) Looking at the lower edge of the Control Head with the tape in motion, ensure that the lower edge of the tape runs 0.25mm above the lower edge of the Control Head. If it doesn't, turn Black Screw (A) slightly in either direction as necessary to correct it. Turn clockwise to lower the head and counterclockwise to raise

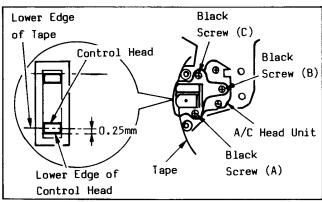


Fig. M17

### 3. Confirmation of Tilt of A/C Head

(1) Play back a cassette tape and confirm that the tape runs properly between lower and upper limits of T3 Post. Also confirm that the tape

is running smoothly.

If adjustment is required, turn Black Screw
(B), in Fig. M17, counterclockwise until
curling is apparent at lower edge of T3 Post. Then turn Black Screw (B) clockwise until the curling smoothes out.

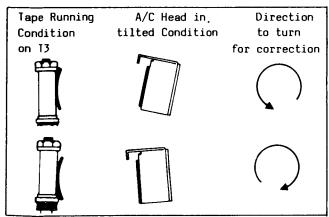
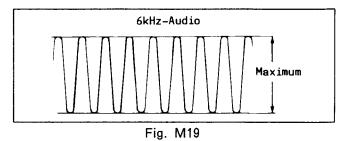


Fig. M18

### 4. Height and Azimuth Adjustment of A/C Head

- (1) Connect the oscilloscope to TP4001 on the Main
- (2) Play back the Monoscope portion (6KHz, Mono) of the Alignment Tape.
- (3) Adjust Black Screw (C) on the A/C Head Base in Fig. M17 so that the output level is at a maximum.



(4) Readjust Black Screw (A) shown in Fig. M17 for maximum output.

(5) Disconnect the oscilloscope.

### Horizontal Position Adjustment of A/C Head

Set the tracking control to the f (neutral) position by pushing both of tracking control Up/Down Switches, on the Main C.B.A., in at the same time. Connect the oscilloscope to TP3501 on the Main C.B.A. Use TP2001 as a trigger.

Play back the monoscope portion of the Alignment Tape and confirm that RF envelope appears, as in Fig. M21.

If adjustment is required, loosen 2 Black Screws (D) and then slowly move the A/C Haed Base back and forth using a screwdriver so that the envelope is at a maximum.

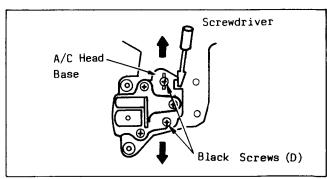


Fig. M20

(4) Confirmation of the correct adjustment\_can be made by alternately pushing the Tracking Control Up/Down Switches, on the Main C.B.A.

to check the symmetry of the envelope.

(5) Trghten 2 Black Screws (D).

(6) Reconfirm the symmetry of the envelope. If it has changed, repeat steps 3–5.

### 6. Confirmation/Adjustment of Envelope Output

Set the tracking control to the fixed (neutral) position by pushing both of the tracking control Up/Down Switches, on the Main C.B.A., in at the same time. Connect the oscilloscope to TP3501 on the Main C.B.A. Use

TP2001 as a trigger. Playback the Ma Playback the Monoscope portion of the Alignment Tape and adjust the height of posts S2 and T1 watching the scope display so that the envelope becomes as flat as possible.

(V1/V-max >= 0.7, V2/V-max >= 0.8) If adjustment is required, turn top of post with Hex. Wrench (1.5mm). For adjustment of \$2 and T1, refer to Item 6-1 and it's Note.

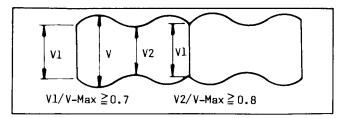


Fig. M21

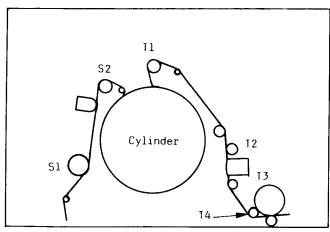


Fig. M22

(3) When the scope display is as shown in Fig. M23, adjust the height of S2 so that the waveform looks like Fig. M25.

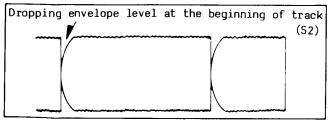


Fig. M23

(4) When the scope display is as shown in Fig. M24, adjust the height of T1 so that the waveform looks like Fig. M25.

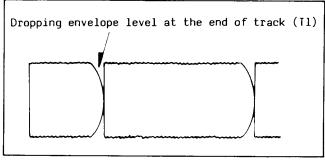


Fig. M24

The scope display should appear as shown in Fig. M25 when S2 and T1 Posts are adjusted properly.

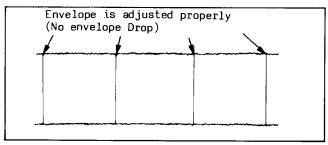


Fig. M25

Note:

Upon completion of adjustment of S2 and T1, tighten the Black Lock Screw on S2 and T1 using Lock Screwdriver. Then confirm the Horizontal Position of A/C Head by pushing the Tracking Control Up or Down switches on the Main C.B.A. alternately to check the symmetry of the envelope. And if required, perform "Horizontal Position Adjustment of A/C Head" A/C Head".

After these adjustment/confirmation procedures, replace the cassette protective

Tape Cover.

## 2-3-7. ASSEMBLY AND ADJUSTMENT PROCEDURE OF MECHANISM

This procedure starts with the condition that the Cabinet parts and Cassette Up Unit have been removed. When re-assembling, perform the step (s) in the reverse order.

STEP	START-		-	REMOVAL	INSTALLATION
/LOC No.	ING No.	PART	Fig. No	. REMOVE * UNHOOK/UNLOCK/RELEASE	ADJUSTMENT # CONDITION * REMARKS
1	1	RT (S) UNIT T. D.D. CYL. UNIT	/ <sub>B</sub> M27, 2	8 3 (S-0) * Connectors	* Remove the Earth Plate before Step ①
2	3	TAKEUP REEL GEAR	T M26, 2	8 (C-1), (W-1) < Note 1>	(+)
3	3	CLUTCH GEAR UNIT	T M26, 2	8 (C-2), (W-2) < Note 1>	(+)
4	4	SOFT BRAKE T'UNIT	M26, 2	8 (C-3), * (P-1) < Note 1>	(+)
(5)	6	HEAD AMP ANGLE	Т М29	2 (S-2), (S-3) * Connector	* Remove the LP Head amp Unit before Step ⑤.
6	6	MODE SELECT SWITCH UNIT	M26, 2	9 (S-3) * Connector	Align the Punch Mark with the Notch.  # STOP MODE
7	6	TAPE GUIDE LEVER UNIT	Г М26, 2	9 (C-4), * (P-2) < Note 1>	See, Hooking Position.
8	7	IDLER GEAR	М26, 3	)	(+) Align the Notch with the Shaft of Loading Idle Gear. # STOP MODE
9	8	SECTOR GEAR UNIT	M26, 3	)	(+) Align the Hole with the Notch. # STOP MODE
10	9	A/C HEAD BASE UNIT	M26, 3	3 (S-4)	<note 2=""></note>
10	10	MOTOR GEAR 1	M26, 3	(C-5) < Note 1>	(+) # STOP MODE (Fig. M31)
12	11, 10	LOADING 1 MOTOR UNIT	M31	2 (S-5)	<note 2=""></note>
13	10	TAPE GUIDE 1 LEVER UNIT	M26, 3	(R-1), * (P-3)	See, Hooking Position.
14)	14	TENSION ARM 1 Unit	M26, 3	2 (C-6), (W-3) < Note 1>	(+) See, Adjustment of Tension Post Position.Align the Punch Mark with the Notch. #Loading
15	15	SUPPLY REEL 1 TABLE UNIT	M26, 3	2 (C-7), (W-4) <note 1=""></note>	(+)
16	15	TENSION BAND 1 ARM UNIT	M26, 3	(C-8), * (P-4) < Note 1>	(+)
17	16, 14	CASSETTE T STAND S ASS'Y	M26, 3	2 (S-6), * Connector	(+) < Note 2>

STEP	START-	PART		REMOVAL		INSTALLATION
/LOC No.	ING No.			Fig. No.	REMOVE *UNHOOK/UNLOCK/RELEASE	ADJUSTMENT #CONDITION
18	18	SHIELD COVER	В	M27	(S-7)	
19	18,11, 10,2	LOADING GUIDE ASS'Y	T 	M26,34	6(S-8), *(L-1), *Connector	(+) <note 2=""> <note 3=""> # Loading</note></note>
20	19	TAKEUP SHAFT HOLDER ASS'Y	•	M26	(C-9)	(+) <note 1=""></note>
21)	19	SUPPLY SHAFT HOLDER ASS'Y	•	M26		(+)
22)	19	V STOPPER BASE ASS'Y	IT 	M26	2(S-9)	
23)	19,13	PRESSURE ROLLER ARM UNIT	T   	M26, M35	(R-2),(C-10), *(P-5), <note 1=""></note>	(+) See, Hooking Condition.
24)	23,5	CAPSTAN MOTOR UNIT	T   	M26,27, M35	*Capstan Belt, 3(S-10), *Connector	<pre></pre>
25)	4	CASSETTE STAND-T	ĮT Į	M26, M35	2(S-11)	(+) <note 2=""></note>
26)	19	RING GUIDE 1	ļT ļ	M36	(S-12)	See, setting condition.
27)	19	RING GUIDE 3	ĮT Į	M36	(S-13)	See, setting condition.
28)	27,26, 21,20	LOADING RING S UNIT	ĮT Į	M26, M36		(+) Align the Hole with punch Mark
29	28	LOADING DRIVE GEAR-T	ĮT	M36	(C-11) <note 1=""></note>	(+)
30	28	RING GUIDE GEAR-S (2 USED)	IT 	M36		
(31)	31	RING LIMITER	ļΤ	M26,37	(S-14)	
32)	28	LOADING RING T UNIT	T         	M36, M37		See, setting Condition. Align the Punch Mar with the Notch.
33	31	LOADING IDLE GEAR	T	M26,37		(+) Align the Punch Mar with the Notch.
34)	32,28, 19	RING GUIDE GEAR-T (2 USED)	T	M37		(+) Black Color Gea # STOP MODE
35)	10	LOADING DRIVE GEAR-S	T   	M36, M37	(C-12) <note 1=""></note>	(+)
36)	33,32, 30,28	RING GUIDE-2	IT 	M36, M37	(S-15)	
37)	32,28,22, 19,17	LOADING GUIDE-S UNIT	ĮT Į	M38	3(S-16)	<note 2=""></note>

EARTH PLATE

List of Abbreviations:

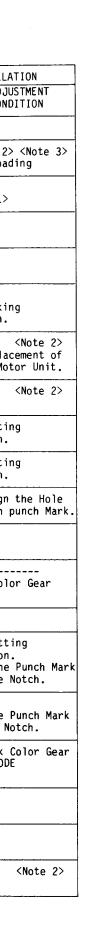
T = Top, B = Bottom,

(R-1) = Retaining Ring (R-1); (P-1) = Spring (P-1); (S-1) = Screw (S-1);

(W-1) = Washer (W-1); 2(S-2) = 2 Screws (S-2); (C-1) = Cut Washer (C-1);

(L-1) = Locking Tab (L-1)

(+) = Refer to Exploded Views for Lubrication information



EARTH

PLATE

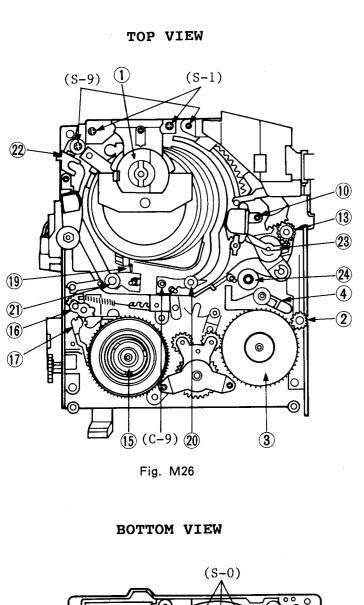


Fig. M27

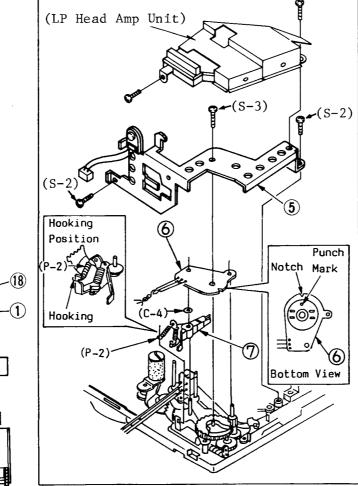
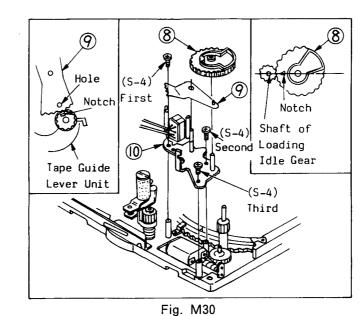
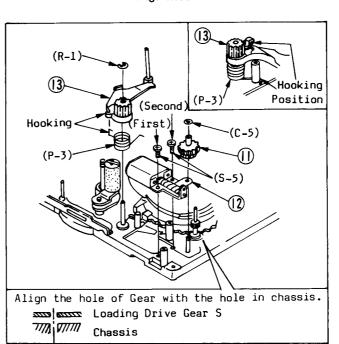


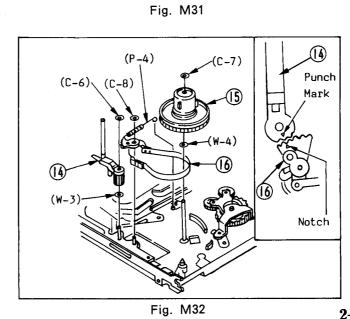
Fig. M28

Hooking Position

Hooking







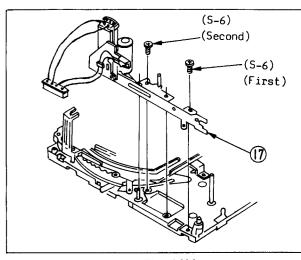


Fig. M33

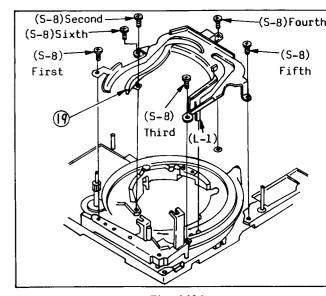
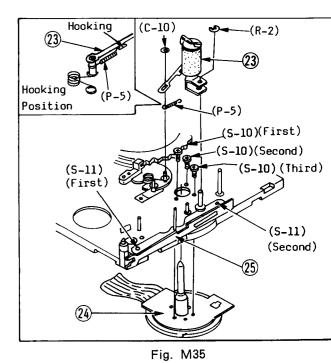


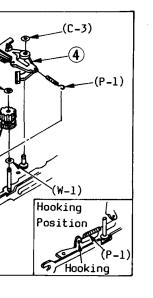
Fig. M34



2-18

Fig. M29

2-19

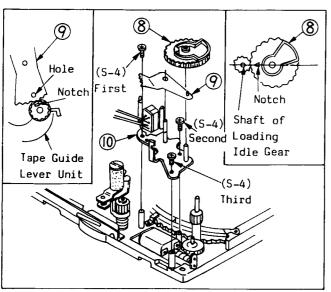


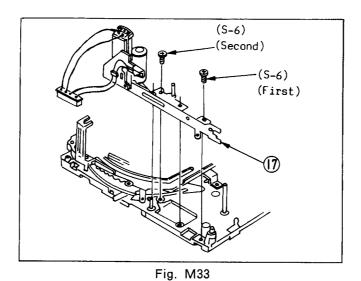
(S-2)

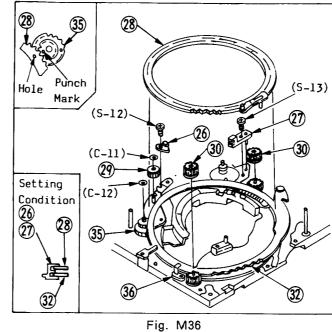
Punch

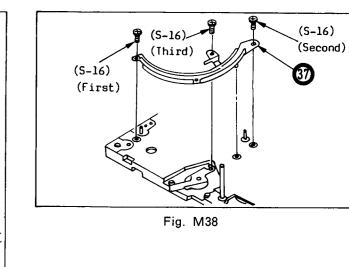
Notch Mark

Bottom View











(R-1)Hooking Position Hooking. Align the hole of Gear with the hole in chassis.

xxxx Loading Drive Gear S

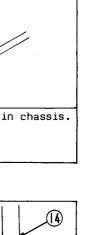
Chassis

תוווס נוויר

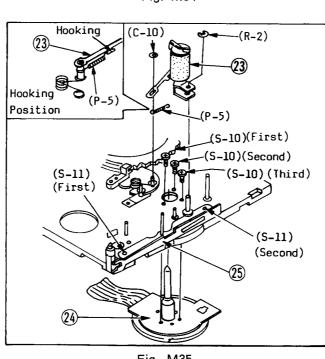
-(S-8)Fourth (S-8)Sixth (S-8) First Fifth (S-8)Third

(S-8)Second

Fig. M34



2-19



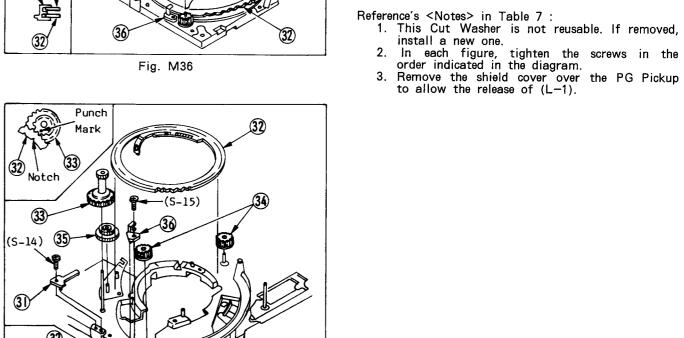


Fig. M37

Align the hole of Gear with the hole in chassis.

7777 Chassis

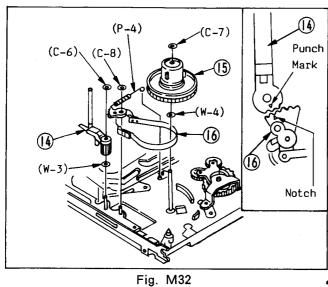
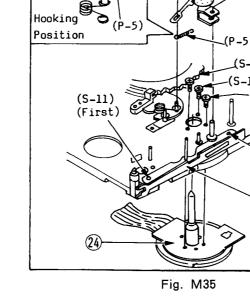
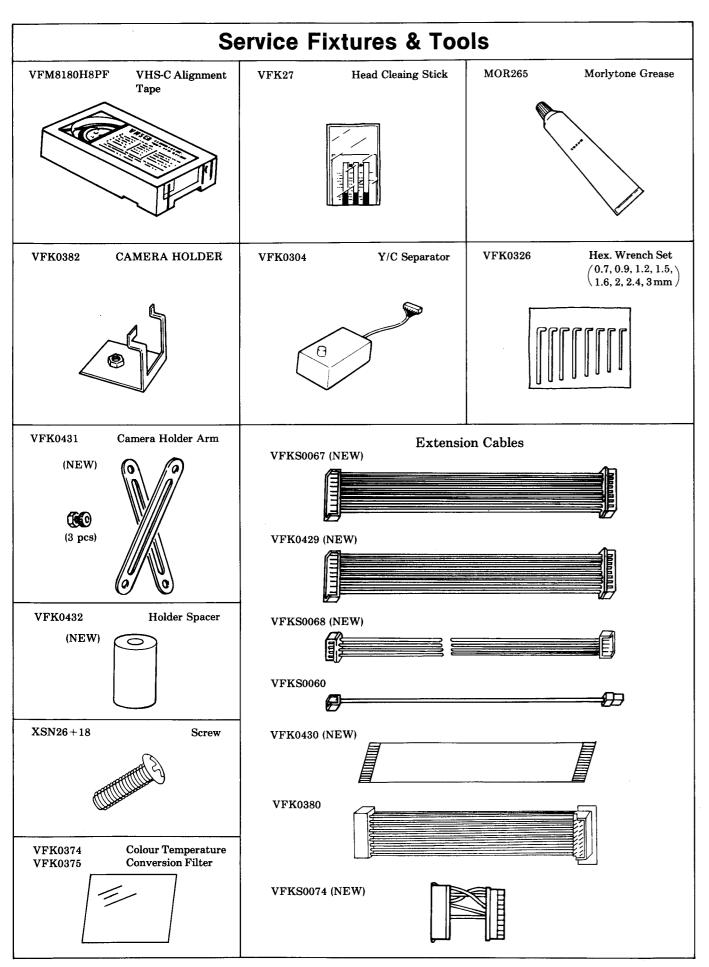


Fig. M31



2-20



### 2-4. ELECTRICAL ADJUSTMENT PROCEDURES

### 2-4-1. ELECTRICAL ADJUSTMENT FOR CAMERA SECTION

### TEST EQUIPMENT AND TOOLS

The following equipment is required for adjustment of the CAMERA section of VHS-C Movie.

- Oscilloscope

   Dual Trace, 25MHz, 2mV/DIV,
   10:1 Probe
   1:1 Probe
- . Digital Volt Meter or VTVM
- . Frequency Counter
- . Vectorscope . Light Meter
- . Light ivid
- . Colour Video Monitor
- Lighting 140 footcandles (1400lux), on the chart surface 3200 degrees K.
- 9. Reflection Chart

  \*Logarithmic Gray Scale Chart
  (Part No.:YWV2310RB99)

  \*Colour Chip Chart
  (Part No.:YWV2100RB98)
  - \*Ball Chart (Part No.:YWV2100RB03)
  - \*Hunting Chart (Included in this Service Manual)
  - \*White Chart (Card)
    (The white paper is available as a white chart)
  - \*J Chart (Part No.: YWV2100RB3)
  - \*B/W Chart
  - (Included in this Service Manual)
  - \*Gray-White Chart (Included in this Service Manual)
- 10. Plastic Tip Driver 11. Camera Unit Holder
- (Part No.: VFK0382)
- 12. Camera Holder Arm (Part No.: VFK0431)

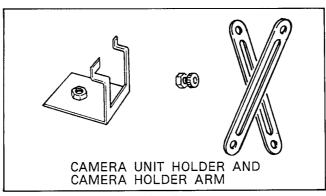


Fig. C1

13. Color temperature conversion filter

\*C12 Filter

(Part No.:VFK0374)

\*C2 Filter

(Part No.:VFK0375)

14. Camera Extension Cables (Part No.:VFKS0060, VFK0380, VFK0430)

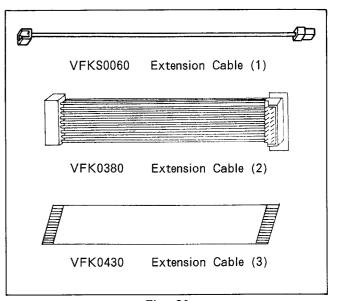


Fig. C2

### **PREPARATION**

- Remove the Side Case (L) and Side Case (R) from the Unit. (Refer to the Disassembly Section.)
- 2) Mount the Camera Unit on the tripod using the Camera Unit Holder (VFK0382) and Camera Holder Arm (VFK0431).
- 3) Connect the Camera Unit, Video Recorder Unit, AC Adaptor, Camera Operation Unit and Colour Monitor TV as shown in Fig. C3.
- 4) Remove the Flexible Cable between FP301 and P1002 And re-connect the Camera Extension Cable (3) (VFKW0053C) to these connectors.

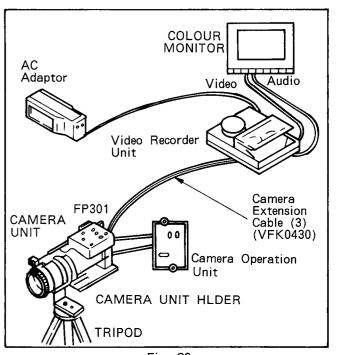


Fig. C3

Note:

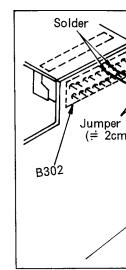
Set the W position duri
 Service wor

z. Service wor performed maintain len

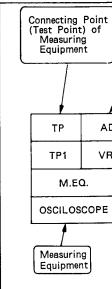
maintain len 3. To achieve

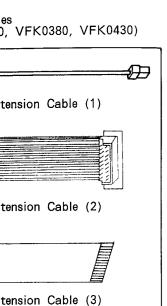
up the cam
4. FOR TRIGGI
To trigger
the followin
points. (H-F
- Pin 13 of
after co

Procedure(s).
5. If you use colour temp is 3200 degr



### HOW TO READ PROCEDURES





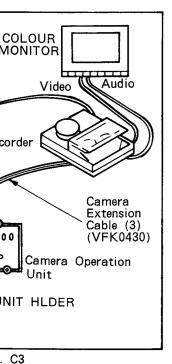
e (L) and Side Case (R)

C2

nbly Section.) nit on the tripod using the (FK0382) and Camera Holder

Jnit, Video Recorder Unit, Operation Unit and Colour in Fig. C3.

Cable between FP301 and ct the Camera Extension C) to these connectors.



Note:

Set the White Balance Switch to INDOOR position during adjustment procedures.

2. Service work for the Camera Unit must be performed in a dust-free location to maintain lens cleanliness.

3. To achieve the best adjustment results, warm

up the camera before adjusting.
4. FOR TRIGGER (Refer to Fig. C4)

To trigger the scope, solder jumper wires to the following pins that are used as test points. (H-Rate - Pin 12 of B302 and V-Rate - Pin 13 of B302). Remove the jumper wires the adjustment after completing Procedure(s).

5. If you use the reflection chart, ensure the colour temperature of the light source used is 3200 degrees K.

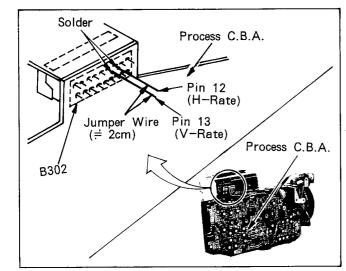


Fig. C4

## HOW TO READ THE ADJUSTMENT PROCEDURES

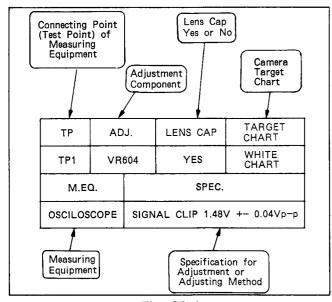
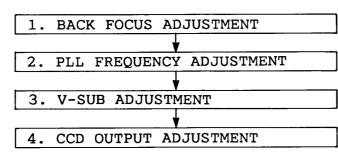


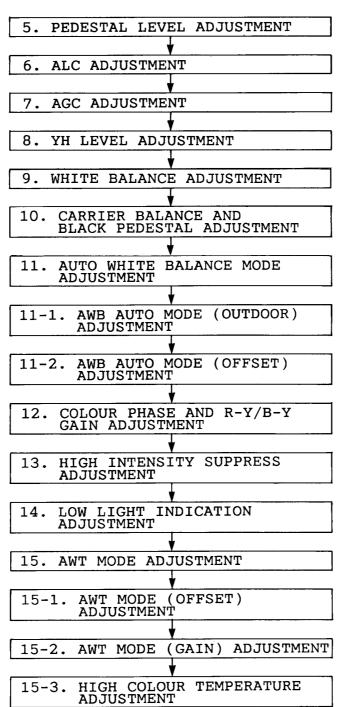
Fig. C5-1

CAMER SECTION ADJUSTMENT FLOW CHART

### CCD DRIVE SECTION



### PROCESS SECTION



#### AUTO FOCUS SECTION

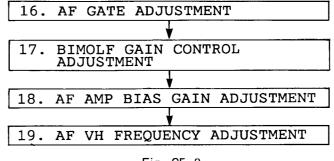


Fig. C5-2

### CCD DRIVE SECTION

### 1. BACK FOCUS ADJUSTMENT

- (1) Aim the Camera at the Hunting Chart in 3m distance and zoom all the way in (Fully tele position).
- Focus the lens on the object.
- Adjust the relay lens adjustment point as shown in Fig. C6.

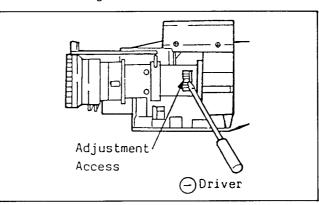


Fig. C6

- (4) Zoom all the way back and adjust the back focus pitch so that the sharpest focus is obtained.
- Repeat the procedure as follows, zoom in, focus, zoom out and adjust until the best focus is obtained over the entire Zoom range.

### 2. PLL FREOUENCY ADJUSTMENT

(1) Remove the Sensor Shield Case by removing its 4 Screws

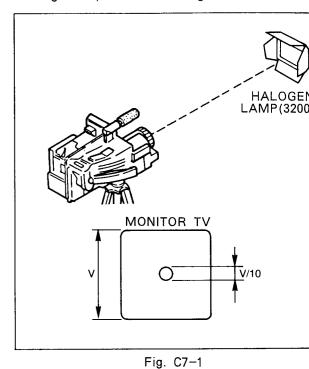
4 3016WS.							
ТР	ADJ.	LENS CAP	CHART				
PIN 10 OF B201	C206						
M.EQ.		SPE	C.				
FREQUENCY CO	DUNTER	9.65625MH	lz + 10Hz				

B201, C206: CCD Drive C.B.A.

### 3. V-SUB ADJUSTMENT

TP	ADJ.	LENS	CAP	CHART	
	VR201	NO		HALOGEN LAN	
M.EQ.				SPEC.	
MONITOR TV				NO BLOOMING	

(1) Zoom allthe way in (Fully tele position) aim the camera at the Halogen Lamp ( degrees K) as shown in Fig. C7-1.



- (2) Set the High Speed Shutter SW to "ON" por (3) Connect a jumper wire between TP10 and TP fully open the iris.
- Adjust the Blooming Control (VR201) so the monitored picture does not contain Blooming.
- (5) High Speed Shutter "ON" and "OFF" both r confirm that the monitored picture does contain the Blooming even if the camera n as shown in Fig. C7-2.

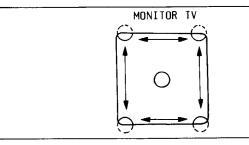


Fig. C7-2

FLOW CHART

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SET)

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JUSTMENT

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### AUTO FOCUS SECTION

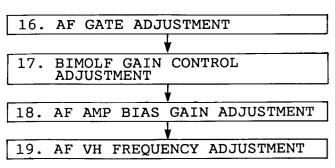


Fig. C5-2

### CCD DRIVE SECTION

### 1. BACK FOCUS ADJUSTMENT

- (1) Aim the Camera at the Hunting Chart in 3m distance and zoom all the way in (Fully tele position).
- Focus the lens on the object.
- Adjust the relay lens adjustment point as shown in Fig. C6.

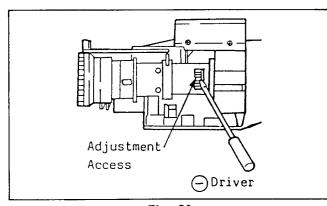


Fig. C6

- Zoom all the way back and adjust the back focus pitch so that the sharpest focus is obtained.
- Repeat the procedure as follows, zoom in, focus, zoom out and adjust until the best focus is obtained over the entire Zoom range.

### 2. PLL FREQUENCY ADJUSTMENT

(1) Remove the Sensor Shield Case by removing its 4 Screws.

TP	ADJ.	LENS CAP	CHART				
PIN 10 OF B201	C206						
M.EQ.		SPE	C.				
FREQUENCY CO	DUNTER	9.65625MH	iz +- 10Hz				

B201, C206: CCD Drive C.B.A.

### 3. V-SUB ADJUSTMENT

TP	ADJ.	LENS CAP		CHART	
	VR201	NO		O HALOGEN LAMP	
M.EQ.				SPEC.	
MONITOR TV				NO BLOOMING	

(1) Zoom allthe way in (Fully tele position) and aim the camera at the Halogen Lamp (3200 degrees K) as shown in Fig. C7-1.

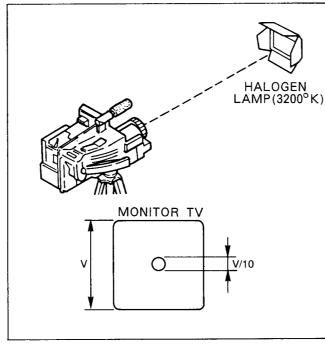


Fig. C7-1

- (2) Set the High Speed Shutter SW to "ON" portion.(3) Connect a jumper wire between TP10 and TP11 to
- fully open the iris. (4) Adjust the Blooming Control (VR201) so that the monitored picture does not contain the
- Blooming. (5) High Speed Shutter "ON" and "OFF" both mode, confirm that the monitored picture does not contain the Blooming even if the camera moves as shown in Fig. C7-2.

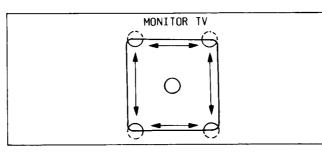


Fig. C7-2

2 - 24

### 4. CCD OUTPUT ADJUSTMENT

TP	ADJ.	LENS CAP	CHART	
TP201	VR202	NO	WHIJ CHART	
М	.EQ.	SPEC.		
OSCIL	LOSCOPE	200mV +- 10mV		

### Note:

TP201, VR202: CCD Drive C.B.A.

- (1) Aim the camera at the  $\boldsymbol{J}$  chart and focus the lens on the object.
- (2) Connect the oscilloscope to TP201.
  (3) Adjust VR202 so that the signal level is 200+-10mVp-p as shown in Fig. C8.

#### Note:

Prior to the above adjustment, adjust the iris control (VR301) so that the level at TP1 is 300+-10mV by observing waveform on the oscilloscope.

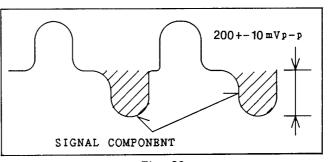


Fig. C8

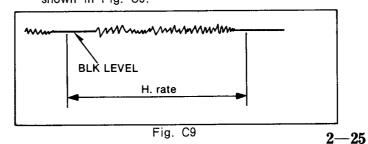
### PROCESS SECTION

### 5. PEDESTAL LEVEL ADJUSTMENT

TP	ADJ.	LENS CAP	CHART	
TP2	VR305	YES		
M.EQ.		SPEC.		
OSCILLOSCOPE		SIGNAL LEVEL EQUALS THE BLANKING (BLNK) LEVEL.		

TP2, VR305 : Process C.B.A.

- (1) Cover the Camera Lens with the Lens Cap.
  (2) Connect the scope to TP2 and trigger with Pin 12 of B302 (H-Rate).
- (3) Adjust the Pedestal Level Control (VR305) so that the signal level equals the BLK level as shown in Fig. C9.

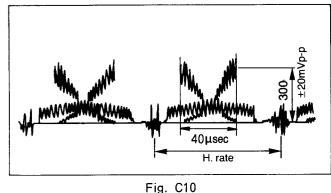


6. ALC ADJUSTMENT

TP	ADJ.	LENS CAP	CHART	
TP1	VR301	NO	GRAY SCALE CHART	
М	M.EQ.		SPEC.	
OSCILLOSCOPE		0.30V +- 0.02Vp-p		

TP1, VR301: Process C.B.A.

- Aim the camera at the gray scale chart. Connect the scope to TP1 and trigger with Pin
- 12 of B302 (H-Rate).
  Adjust the Camera Unit to obtain 40usec as shown in Fig. C9.
- Adjust the Auto Iris Control (VR301) so that the signal level is 0.30V +- 0.02Vp-p.



### 7. AGC ADJUSTMENT

TP	ADJ.	LENS CAP		CHART		
TP2	VR304	NO		NO		GRAY SCALE CHART
V	M.EQ.			SPEC.		
OSCILLOSCOPE			0.30	0.02Vp-p		

TP2, VR304: Process C.B.A.

- (1) Aim the camera at the gray scale chart.(2) Connect the scope to TP2 and trigger with Pin
- 12 of B302 (H-Rate).
  Adjust the Camera Unit to obtain 40usec as shown in Fig. C11.
  Adjust the AGC Control (VR304) so that the
- signal level is 0.30V +- 0.02Vp-p.

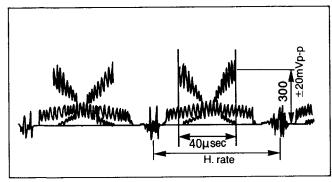


Fig. C11

### 8. YH LEVEL ADJUSTMENT

TP	ADJ.	LENS CAP	CHART	
PIN 7 OF FP 301	VR302	NO	GRAY SCALE CHART	
M.EQ.	SPEC.			
OSCILLOSCOPE	A = 1.4V +- 0.06Vp-p			

Note:

VR302, FP301 : Process C.B.A.

- (1) Connect the jumper wire between TP4, TP5 and TP6.
- (2) Aim the camera at the gray scale chart.
  (3) Connect the scope to Pin 7 of FP301 (Refer to Fig. C13).
- (4) Adjust the YH Level Control (VR302) so that the signal level "A" is 1.4V +- 0.06Vp-p as shown in Fig. C12.
- (5) Disconnect the jumper wire between TP4, TP5 and TP6.

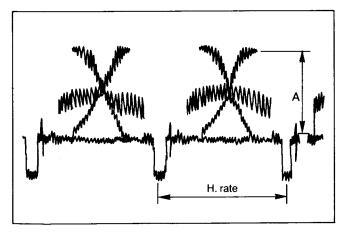


Fig. C12

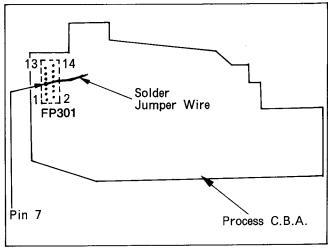


Fig. C13

### 9. WHITE BALANCE ADJUSTMENT

TP	ADJ.	LENS CAP	CHART			
VIDEO OUTPUT	VR322, VR323	NO	WHITE CHART			
M.EQ.	SPEC.					
VECTORSCOPE	CENTER OF VECTORSCOPE					
OSCILLOSCOPE	WAVEFORM IS MINIMIZED					

Note:

VR322, VR323 : Process C.B.A.

### WITH VECTORSCOPE

- (1) Connect a jumper wire between TP4, TP5 and TP6.
- (2) Aim the camera at the White Chart.
- (3) Supply the video signal to the vectorscope.
   (4) Adjust the White Balance Controls (VR322 and VR323) so that the colour vectors are VR323) so that the colour vectors collected at the center of screen on vectorscope as shown in Fig. C14. the
- (5) Remove the jumper wire between TP4, TP5 and

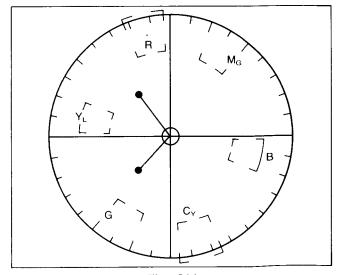


Fig. C14

### WITH OSCILLOSCOPE

- Adjustment condition and procedure are same as using vectorscope
- (2) Adjust VR322 and VR323 so that the waveform is minimized.

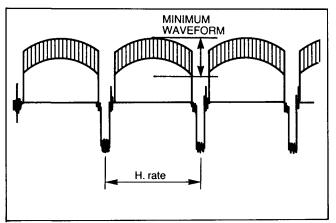


Fig. C15

## 10. CARRIER BALANCE AND BLACK PEDESTAL ADJUSTMENT

TP	ADJ.		LENS CAP	CHART	
VIDEO OUTPUT	VR308 VR318, VR319		YES		
M.EQ.			SPEC.		
VECTORSCOPE C		CE	CENTER OF VECTORSCOPE		
OSCILLOSCOPE		WA	WAVEFORM IS MINIMIZED		

### Note:

VR308, VR319, VR318 : Process C.B.A.

### WHTH VECTORSCOPE

- Connect the jumper wire between TP4, TP5 and TP6.
- (2) Cover the Camera Lens with the Lens Cap.
- (3) Adjust the Black Pedestal Control (VR308) so that the colour vectors collect at the centre of screen on the vectorscope.
- (4) Connect the jumper wire between TP6 and Pin 7 of BA307
- (5) Adjust the Carrier Balance Controls (VR318 and VR319) so that the colour vectors collect at the centre of screen on the vectorscope.
- (6) Disconnect the jumper wire between TP4, TP5 TP6 and Pin 1 of BA307-1.

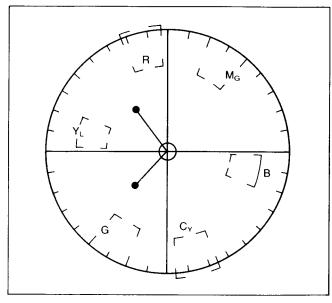


Fig. C16

### WITH OSCILLOSCOPE

- Adjustment condition and procedure are same as using Vectorscope.
- (2) Adjust VR318 and VR319 so that the waveform is minimized.

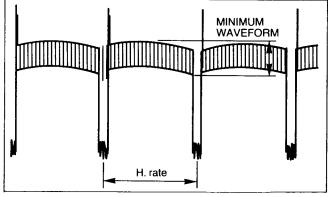


Fig. C17

### 11. AUTO WHITE BALANCE MODE ADJUSTMENT

Note:

1) Perform both sections of this procedure.

### 11-1. AWB AUTO MODE (OUTDOOR) ADJUSTMENT

TP	ADJ.	LENS CAP	CHART		
VIDEO OUTPUT	VR312 VR313	NO	WHITE CHART		
M.EQ.	SPEC.				
VECTORSCOPE	CENTER OF VECTORSCOPE				
OSCILLOSCOPE	WAVEFORM IS MINIMIZED				

VR312, VR313 : Process C.B.A.

WITH VECTORSCOPE

- (1) Set the WHITE BALANCE Switch on the Camera Operation Unit to the "OUTDOOR".
- (2) Connect a jumper between TP4, TP5 and TP6.
- (3) Aim the camera at the white chart using a 3200 degrees K Halogen lamp.
- (4) Supply the video signal to the vectorscope.
   (5) Attach the colour temperature conversion filters (VFK0374 andVFK0375) which converts 3200 degrees Kelvin to 5800 degrees Kelvin in front of the Lens (Refer to Note 1 of item.
- If the color temperature conversion filter is not available, use a day light source (Refer to Note 2 of No. 15-3).
- (7) Adjust the W.B. (B-Y) OUTDOOR GAIN and W.B. (R-Y) OUTDOOR GAIN Controls (VR312 and VR313) so that the colour vectors move to the centre of screen on the vectorscope. (Refer to Fig. C19.)
- Remove colour temperature filter with the fixture from the lens.

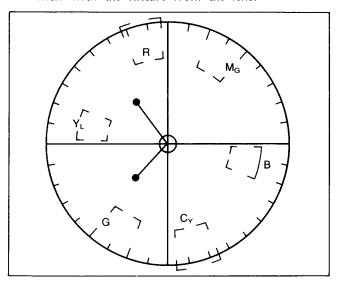


Fig. C18

### WITH OSCILLOSCOPE

- (1) Adjustment condition and procedure are same as using vectorscope.
- (2) Adjust VR312 and VR313 so that the waveform is minimized.

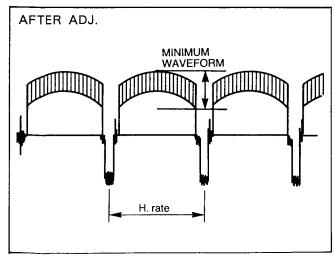


Fig. C20

#### 11-2. AWB AUTO MODE (OFFSET) ADJUSTMENT

TP	ADJ.	LENS CAP	CAHRT		
VIDEO OUTPUT	VR314, VR315	NO	GRAY SCALE CHART		
M.EQ.	SPEC.				
VECTORSCOPE	CENTER OF VECTORSCOPE				
OSCILLOSCOPE	WAVEFORM IS MINIMIZED				

Note:

VR314, VR315 : Process C.B.A.

#### WITH VECTORSCOPE

- (1) Set the WHITE BALANCE Switch on the Camera Operation Unit to the "INDOOR".
  (2) Remove the jumper wire between TP4, TP5 and
- TP6.
- (3) Adjust the W.B. (R-Y OFFSET) and W.B. (B-Y OFFSET) Controls (VR314 and VR315) so that the colour vectors move to the centre of screen on the vectorscope. (Refer to Fig. C20-1.)

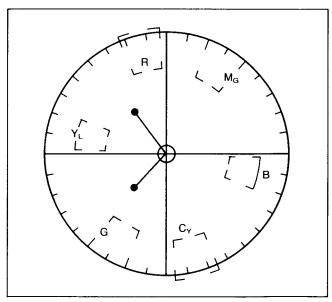


Fig. C20-1

### WITH OSCILLOSCOPE

- (1) Adjustment condition and procedure are same as using vectorscope.
- (2) Adjust VR314 and VR315 so that the waveform is minimized.

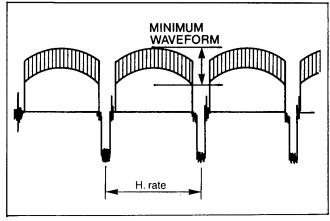


Fig. C21

## 12. COLOUR PHASE AND R-Y/B-Y GAIN ADJUSTMENT

TP	ADJ.		LENS CAP	CHART
VIDEO OUTPUT	VR316, VR303	VR317 , VR324	NO	COLOUR CHIP CHART
M.EQ.			SPEC	
VECTORSCOPE			FIG. C	22

#### Note:

VR316, VR317, VR303, VR324 : Process C.B.A.

- (1) Connect a jumper wire between TP4, TP5 and TP6.
- Aim the camera at a colour chip chart.
- (3) Supply the video signal to the vectorscope.
  (4) Adjust the Colour Phase Control (VR303 and VR324), the R-Y Gain Control (VR316) and the B-Y Gain Control (VR317) so that the vector of each colour is as shown in Fig. C22.
- (5) Remove the jumper wire between TP4, TP5 and TP6.

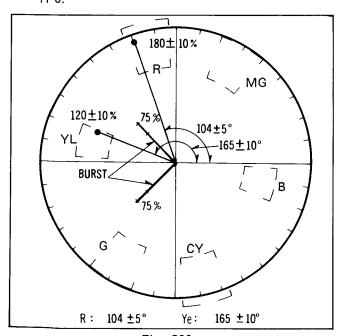


Fig. C22

#### 13. HIGH INTENSITY SUPPRESS ADJUSTMENT

TP	ADJ.	LENS CAP	CHART
	VR306	NO	GRAY SCALE CHART
M.EQ.	M.EQ.		SPEC.
TV MONITOR		NO COLOUF	RINTERFERENCE

#### Note:

VR306: Process C.B.A.

- (1) Aim the camera at the gray scale chart and focus the lens object.

  (2) Press the back light button and keep as it is.
- (3) Adjust VR306 so that the monitored gray scale chart does not have colour interfarence.

## 14. LOW LIGHT INDICATION ADJUSTMENT

TP	ADJ.	LENS CAP	CHART
TP12	VR107	NO	WHITE CHART
M.EQ.		SPEC.	
OSCILLOSCOPE		REFER TO FIG. C23.	

#### Note:

TP12, VR107 : Process C.B.A.

- (1) Connect the oscilloscope to TP12 and set it in DC mode.
- (2) Shade surface of AWT Sensor with hand and adjust VR107 so that DC level at TP12 is changed from "LOW" to "HIGH"

#### Note:

For more acurate adjustment;

When the illumination of the surface of AWT Sensor is 6lux, the level must be "LOW".

When the illumination of the surface of AWT Sensor is 3lux, the level must be "HIGH".

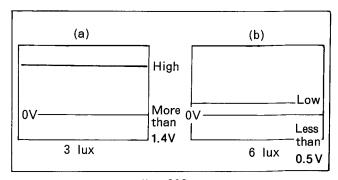


Fig. C23

#### 15. AWT MODE ADJUSTMENT

Note:

this three sections Perform all procedure.

2) Set the WHITE BALANCE Switch on the CAMERA OPERATION UNIT to the "AUTO".

## 15-1. AWT MODE (OFFSET) ADJUSTMENT

TP	ADJ.	LENS CAP	CHART
VIDEO OUTPUT	VR105, VR106	NO	WHITE CHART
M.EQ.		SF	PEC.
VECTORSCOPE		CENTER OF	- VECTORSCOPE
OSCILLOSCOPE		WAVEFORM	M IS MINIMIZED

Note:

VR105, VR106: Process C.B.A.

WITH VECTORSCOPE

(1) Aim the camera at the white chart.
(2) Supply the video signal to the vectorscope.
(3) Rotate VR101 and VR102 fully clockwise as shown in Fig. C24.

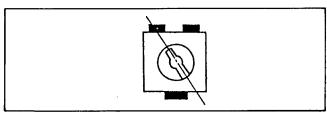


Fig. C24

(4) Adjust the AWT (R-Y OFFSET) and AWT (B-Y OFFSET) controls (VR105 and VR106) so that the colour vectors move to the centre of screen on the vectorscope. (Refer to Fig. C25.)

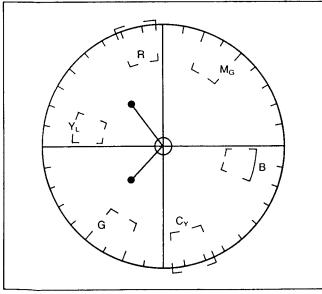


Fig. C25

#### WITH OSCILLOSCOPE

- (1) Adjustment condition and procedure are same as using vectorscope.
- (2) Adjust VR105 and VR106 so that the waveform is minimized.

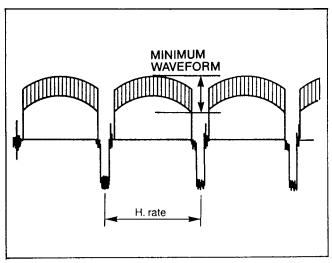


Fig. C26

#### 15-2. AWT MODE (GAIN) ADJUSTMENT

TP	ADJ.		LENS CAP	CHART	
	VR103, VR104, VR105, VR106		NO	WHITE CHART	
М.	M.EQ.		SPEC.		
VECTO	ECTORSCOPE CE		NTER OF '	VECTORSCOPE	
OSCILLOSCOPE W/		VEFORM	IS MINIMIZED		

Note:

VR103, VR104, VR105, VR106 : Process C.B.A.

#### WITH VECTORSCOPE

- (1) Aim the camera at the white chart using a 3200 degrees K Halogen lamp.
- (2) Supply the video signal to the vectorscope.
- Attach the color temperature conversion filter (VFK0375) which converts 3200 degrees Kelvin to 3400 degrees Kelvin in front of the Lens and AWT Sensor.(Refer to Note 1 of item. 15-3)
- (4) If the colour temperature conversion filter is not available, use a day light source. (Refer to Note 2 of item. 15–3)
  (5) Adjust the AWT (R-Y GAIN) and AWT (B-Y GAIN)
- Controls (VR103 and VR104) so that the color vectors move to the centre of screen on the vectorscope. (Refer to Fig. C27.)

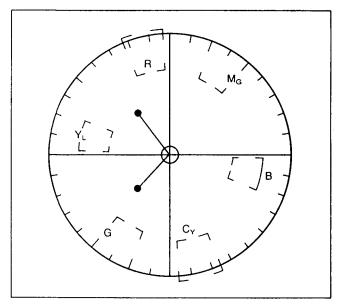


Fig. C27

- (6) Next, remove the colour temperature conversion filter with the fixture from the Lens.
  (7) If the colour vectors do not collect at the centre, adjust the AWT (R-Y OFFSET) and AWT (B-Y OFFSET) Controls (VR105 and VR106) so that the colour vectors move to the centre of screen on the vectorscope.
- (8) Repeat steps (1)-(7) so that the colour vectors collect at the centre of screen on the vectorscope.

#### WITH OSCILLOSCOPE

- (1) Adjustment condition and procedure are same as
- using vectorscope.
  Adjust VR103, VR104, VR105 and VR106 so that the waveform is minimized.

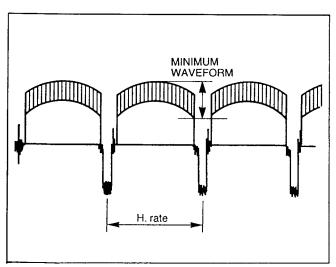


Fig. C28

## 15-3. HIGH COLOUR TEMPERATURE ADJUSTMENT

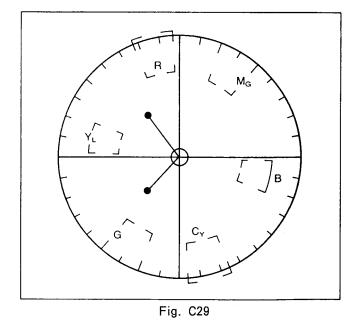
TP	ADJ.		LENS CAP	CCHART
VIDEO OUTPUT	VR101, VR102		NO	WHITE CHART
M.EC	Σ.		SP	EC.
VECTORS	COPE C		ENTER OF	VECTORSCOPE
OSCILLOSCOPE W		AVEFORM	IS MINIMIZED	

#### Note:

VR101, VR102 : Process C.B.A. When this adjustment is performed, items 15-1 and 15-2 must be completed.

#### WITH VECTORSCOPE

- (1) Aim the camera at the white chart using a 3200 degrees K Halogen lamp .
- (2) Supply the video signal to the vectorscope.
- Attach the colour temperature conversion filters (VFK0374 and VFK0375) which convert 3200 degrees Kelvin to 5800 degrees Kelvin in front of the Lens and AWT Sensor. (Refer to Note 1 of item. 15-3).
- If the colour temperature conversion filters are not available, use a day light source. (Rfer to Note 2 of item. 15-3)
- Adjust the Colour Temperature Clip Controls (VR101 and VR102) so that the colour vectors collect at the contre of screen on the vectorscope.



WITH OSCILLOSCOPE

- (1) Adjustment condition and procedure are same as using vectorscope.
- (2) Adjust VR101 and VR102 so that the waveform is minimized.

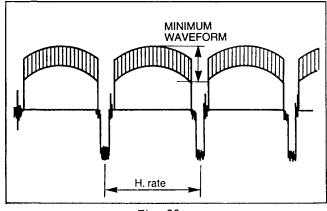


Fig. 30

#### Note 1:

Attach the fixture to the Lens, then attach the colour temperature conversion filter to fixture. It can be procured at a Camera Store. Please construct the fixture using the sheet attached to inside cover page at the back of the Service Manual. (Refer to Fig. C31.)

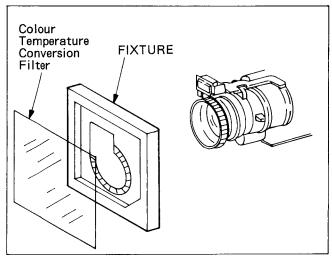


Fig. C31

#### Note 2:

- (1) Aim the camera at a sunny outdoor source (window, etc.).
- (2) Incoming light must be from an outdoor source only; source and illumination on the sensor must be more than 500Lx, and colour temperature must be within 5000 degrees -6000 degrees Kelvin. (Refer to Fig. C26.)

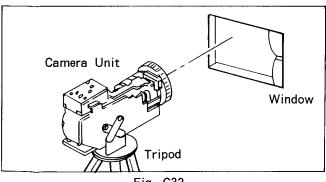


Fig. C32

#### AUTO FOCUS SECTION

#### **PREPARATION**

The following adjustments are for the Auto Focus Unit.

(1) Camera zoom is positioned at the end of TELE side.

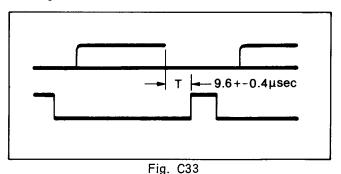
#### 16. AF GATE ADJUSTMENT

TP	ADJ.	IRIS CAP	CHART
TP602, TP603	C656	NO	
М.	M.EQ.		EC.
OSCILLOSCOPE		1T = 9.6 +- 0.4u-sec.	

#### Note:

TP602, TP603, C656 : AF C.B.A.

(1) Set the AF Gate Control (C656) as shown in Fig. C33



#### 17. BIMOLF GAIN CONTROL ADJUSTMENT

TP	ADJ.	LENS CAP	CHART	
TP604	VR603	YES		
M.EQ.	SPEC.			
OSCILLOSCOPE	A = 16V +- 0.5Vp-p			

Note:

TP604, VR603 : AF C.B.A.

(1) Set the Focus Switch to the MANUAL position.

(2) Cover the camera lens with the lens cap.

(3) Connect the scope to the TP604.
(4) Adjust the Bimolf Gain Control (VR603) so that the signal level (A) is 16V +- 0.5Vp-p.

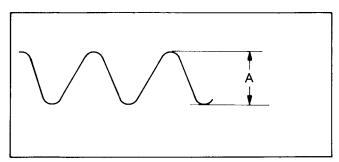


Fig. C34

#### 18. AF AMP BIAS GAIN ADJUSTMENT

TP	AD	J.	LENS CAP	CHART
TP3, TP9, TP10, TP11	VR601, VR602		NO	GRAY SCALE CHART
M.EQ.				SPEC.
D.V.M.				

#### Note:

TP3, TP9, TP10, TP11 : Process C.B.A. VR601, VR602 : AF C.B.A.

- (1) Connect a jumper wire between TP3 and TP10.
   (2) Adjust the AF AMP BIAS Control (VR601) so that the voltage level at TP9 is 1.74V +-0.02V.
- Disconnect the jumper wire between TP3 and TP10.
- (4) Next, connect a jumper wire between TP10 and TP11.
- (5) Adjust the AF AMP Gain Control (VR602) so that
- the voltage Level of TP9 is 3.72V +- 0.05V.

  (6) Disconnect the jumper wire between TP10 and TP11.
- Next, confirm the voltage level at TP9 by
- connecting a jumper wire between TP3 and TP10. If the voltage level at TP9 is not 1.74V +- 0.02V, repeat steps (1) (6).

ТР	ADJ.	LENS CAP	CHART
	DEFLECTION YOKE CENTERING MAGNET	NO	BALL CHART
M.EQ.		S	PEC.
MONITOR TV		CENTER THE PICTURE	

#### 19. AF VH FREQUENCY ADJUSTMENT

TP	ADJ.	IRIS CAP	CHART
TP605	C621	NO	WHITE/GRAY CHART
M.EQ.		SPEC.	
OSCILOSCOPE		A = 1.0 + -0.04 Vp-p	

Note:

TP605, TP611, C621 : AF C.B.A.

Zoom : TELE Side Focus: AUTO

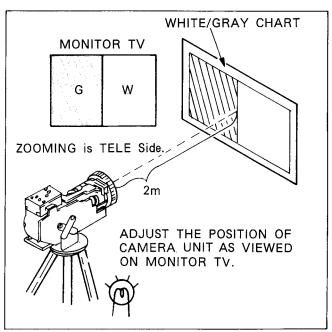


Fig. C35

- Aim the Camera at the White/Gray Chart attached to inside of this Service Manual.
  Confirm that the voltage at TP611 is 2.2V +-
- 0.1V.
- (3) If the Voltage at TP611 is not 2.2V +- 0.1V, adjust the light source so that the voltage at TP611 is 2.2V +- 0.1V.
  (4) Adjust the C621 so that the "A" level at TP605 is 1.0 +- 0.05Vp-p.

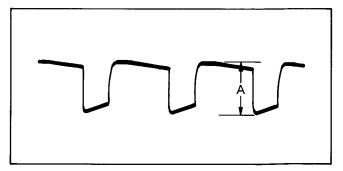


Fig. C36

## 2-4-2. ELECTRICAL ADJUSTMENT FOR E.V.F. SECTION

#### **PREPARATION**

The following adjustments are for the Electronic Viewfinder.

- (1) Connect the Viewfinder plug to the E.V.F. connector on the unit.
- The camera circuit must be completely aligned before viewfinder adjustments are made.

#### 1. H-OSC ADJUSTMENT

TP	ADJ.	LENS CAP	CHART
Pin2 of P701	VR702	NO	BALL CHART
M.EQ.		SPEC.	
FREQUENCY COUNTER		15.6KHz +- 0.1KHz	

Note:

P701, VR702 : E.V.F. C.B.A.

- (1) Connect the scope to Pin2 of P701, use DC
   (2) Adjust the H-OSC (VR702) so that the frequency is 15.8 +- 0.1 KHz.

#### 2. CENTERING ADJUSTMENT

(1) Aim the camera at the registration chart.(2) Adjust the Deflection Yoke Centering Magnets by turning them so that the picture on monitor TV is centered.

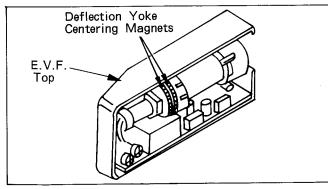


Fig. C39

#### 3. FOCUS ADJUSTMENT

TP	ADJ.	LENS CAP	CHART	
	VR704	NO	BALL CHART	
M.EQ.		SPEC.		
VIEWFINDER		BEST RESOLUTIONON		

Note: VR704 : E.V.F. C.B.A.

- (1) Aim the camera at the Ball chart.
- (2) Adjust the focus control (VR704) for best resolution in the viewfinder.

#### 4. V.SIZE ADJUSTMENT

TP	ADJ.	LENS CAP	CHART
	VR701	NO	GRAY SCALE CHART
M.EQ.		SPEC.	
VIEWFINDER		VERTICAL SIZE IS FIXED.	

Note:

VR701 : E.V.F. C.B.A.

(1) Aim the camera at the gray scale chart.
 (2) Adjust the Vertical Size (VR701) so the Vertical Size is correct and the picture does not roll as shown in Fig. C40.

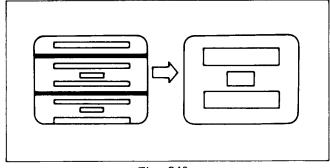


Fig. C40

#### 5. BRIGHTNESS ADJUSTMENT

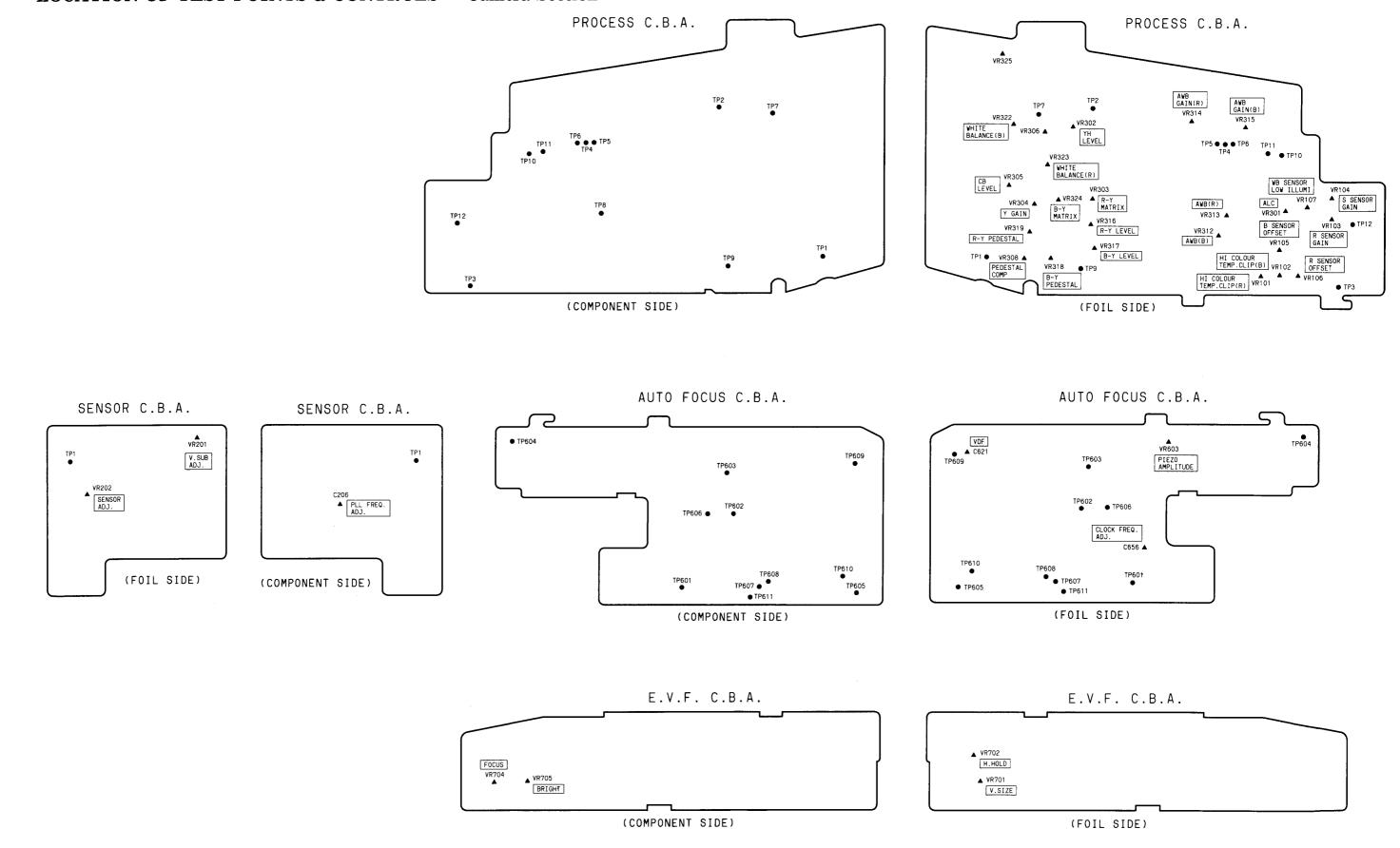
TP	ADJ.	LENS CAP	CHART	
	VR705	NO	GRAY SCALE CHART	
M	.EQ.	SPEC.		
VIEW	FINDER	NATURAL GRADATION		

Note:

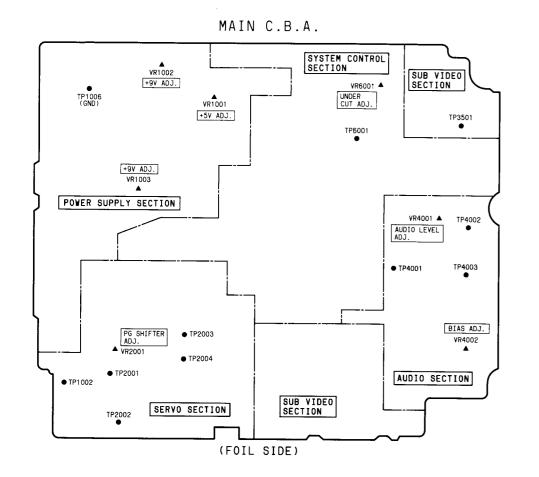
VR705 : E.V.F. C.B.A.

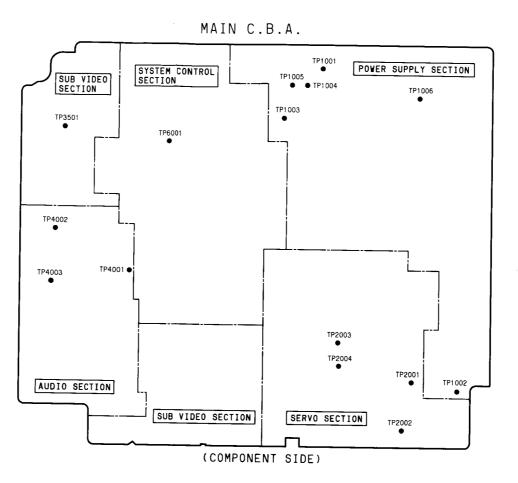
 (1) Aim the camera at the gray scale shart.
 (2) Adjust the Brightness Control (VR705) so that the black and white Bars in the E.V.F. screen are the same as they are in the monitor TV screen.

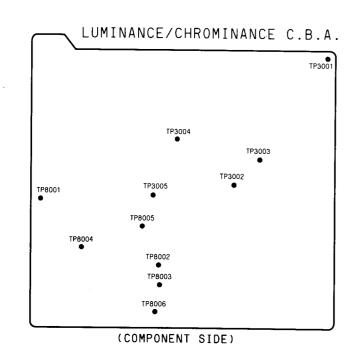
#### LOCATION OF TEST POINTS & CONTROLS — Camera Section —

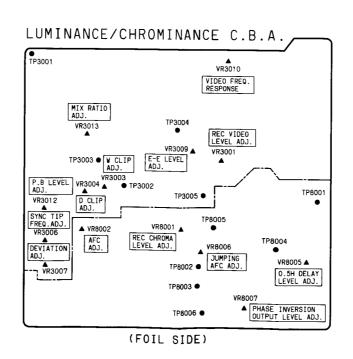


## LOCATION OF TEST POINTS & CONTROLS — VTR Section —









#### 2-4-3. ELECTRICAL ADJUSTMENT FOR VTR SECTION

#### TEST EQUIPMENT AND TOOLS

The following equipment is required for adjustment of the VTR section of VHS-C Movie

- 1. D.V.M (Digital Volt Meter)
  Voltage Range: 0.001 ~ 50V
- 2. Dual Trace Oscilloscope Voltage Range: 0.005 ~ 50Vldiv.
- Frequency Range: DC ~ 10MHz Probe: 10: 1 or 1: 1
- 3. Frequency Counter.
- Frequency Range :
  4. Signal Generator (Sinewave) Frequency Range: 0 ~ 10MHz
- 5. Video Sweep Generator
- Frequency Range: 0 ~ 10MHz

  6. AC Millivolt Meter
- Voltage Range: 0 ~ 1Vrms.
- 7. Plastic Tip Driver
  8. VHS-C Alignment Tape (VMF8180H3PF)
  9. Y/C Separator (VFK0304)
- 10. Extension Cable W16pin Extention Cable (VFK0429)
  - W20pin Extention Cable (VFKS0067)
    4pin Extention Cable (VFKS0068) --- 2pcs.

  - 14pin Flexible Cable (VFK0430)
  - Y/C Separator Connection Cable (VFKS0074)

#### POWER SECTION

- 1. REG.+5V DC ADJUSTMENT
- 2. REG.+9V DC ADJUSTMENT
- 3. CAMERA REG.+9V DC ADJUSTMENT

#### SERVO SECTION

4. PG SHIFTER ADJUSTMENT

#### VIDEO SECTION

- 5. E-E LEVEL ADJUSTMENT
- 6. SYNC TIP FREQUENCY ADJUSTMENT
- 7. DEVIATION ADJUSTMENT
- 8. WHITE AND DARK CLIP ADJUSTMENT
- 9. REC CHROMA LEVEL ADJUSTMENT
- 10. REC VIDEO LEVEL ADJUSTMENT
- 11. AFC ADJUSTMENT

12. MIX RATIO ADJUSTMENT PLAY BACK LEVEL ADJUSTMENT 13. VIDEO FREQUENCY RESPONCE 0.5H DELAY LEVEL ADJUSTMENT

JUMPING AFC ADJUSTMENT

PHASE ANVERSION OUTPUT LEVEL ADJUSTMENT

#### AUDIO SECTION

AUDIO BIAS CURRENT ADJUSTMENT

AUDIO PLAYBACK LEVEL ADJUSTMENT

#### SYSTEM CONTROL SECTION

20. UNDER CUT ADJUSTMENT

#### POWER SECTION

#### 1. REG.+5V DC ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP1001	VR1001	CAMRA REC	10.5+-0.5V DC (To DC Jack by DC Power Supply)
TAPE	M.EQ.		SPEC.
BLANK TAPE	DC Power Supply D.V.M.	4.91+-0.025V	

Condition:

Do not connect AC Adaptor. Connect a DC Power Supply to DC Jack + (+) and GND (-), then supply the voltage 10.5+-0.5V

#### 2. REG.+9V DC ADJUSTMENT

r		,	
TP	ADJ.	MODE	INPUT
TP1002 ?	VR1002	CAMRA REC	9.6+-0.5V DC (To DC Jack by AC Adaptor)
TAPE	M.EQ.		SPEC.
BLANK TAPE	D.V.M.	8.7+-0.05V	

Befor this adjustment, "REG. +5V DC ADJUSTMENT" must be completed. Do not connect AC Adaptor. Connect a DC Power Supply to DC Jack + (+) and GND (-), then supply the voltage 9.6+-0.5V

#### 3. CAMERA REG.+9V DC ADJUSTMENT

ТР	ADJ.	MODE	INPUT		
TP10033	VR1003	CAMERA REC	9.6+-0.5V DC (To DC Jack by AC Adaptor)		
TAPE	M.EQ.	SF	PEC.		
BLANK TAPE	D.V.M.	8.6+0.07V-0.03V			

Confirm the following voltages TP1004 --- 15.2+-0.3V TP1005 --- -7.7+-0.3V

Condieion:

Befor this adjustment, "REG. +9V DC ADJUSTMENT" must be completed.
Do not connect AC Adaptor. Connect a DC Power

Supply to DC Jack + (+) and GND (-), then supply the voltage 9.6 + -0.5 V

#### SERVO SECTION

#### 4. PG SHIFTER ADJUSTMENT

TP	ADJ.	ADJ. MC		INPUT		
TP2001 LINE OUT	VR2001	VR2001 SP MC		SP MODE PLAY BACK		
TAPE	M.E	EQ.		SPEC.		
ALIGNMENT TAPE (VFM8180H3PF	OSCIL SCOP		T=6.5+-0.5H (0.42+-0.03msec)			

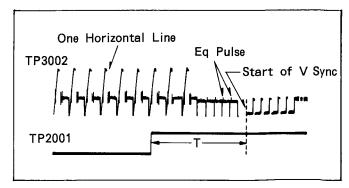


Fig. E1

#### VIDEO SECTION

#### 5. E-E LEVEL ADJUSTMENT

TP	ADJ.		MODE		INPUT
LINE C	UT VR3009		STOP		COLOUR BAR
TAPE		M.EQ.			SPEC.
	os	SCILLOSCO	PEI		A=2.0+-0.1Vpp

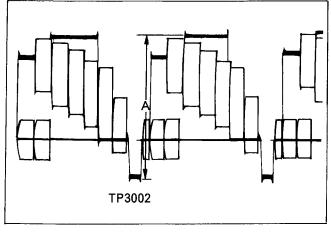


Fig. E2

#### 6. SYNC TIP FREQUENCY ADJUSTMENT

ТР	ADJ.	MODE	INPUT
TP3002	VR3006	SP MODE RECOR DING	NO SIGNAL
TAPE	M.EC	Σ.	SPEC.
BLANK TAPE	FREQUE COUNTE		3.9MHz+-50KHz

#### 7. DEVIATION ADJUSTMENT

TP	TP		MODE	INPUT
Pin 2 of P5503 (HOT) Pin 1 of P5503 (GND) (TRIGGER TP2001)			SP MODE RECOR- DING	COLOUR BAR
TAPE		м <b>.</b> Е <b>М</b> . <b>Е</b> О	Ω.	SPEC <b>SPEC</b> .
BLANK TAPE	(	SIGNAL SENERAT DSCILLOS REQUEN COUNTER	COPE CY	INNER BEAT IS MAXIMUM.

Connect a signal generator (sinewave) to TP3002 through a resistor (1Kohm). Set the frequency and the output level of the (1) Set the frequency and the output level of the signal generator.

Frequency: 4.9MHz +- 50KHz

Output level: 0.1Vp-p

(2) Connect the probe to TP3501 (HOT) on the Head Amp Unit throgh a resistor (1Kohm).

(3) Adjust VR3007 so that the inner beat at white prortion of colour bar becomes maximum.

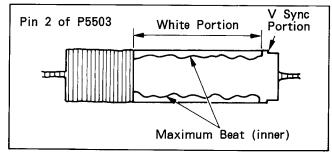


Fig. E3

#### (Misadjustment)

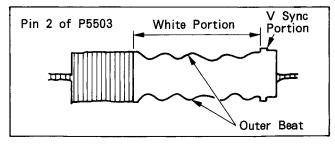


Fig. E4

#### 8. WHITE AND DARK CLIP ADJUSTMENT

TP	ADJ.			ODE	INPUT
TP3003	(	VR3003: A (WHITE CLIP) VR3004: B (DARK CLIP)		ТОР	COLOUR BAR
TAPE	TAPEE M.EQ.			SF <b>SPEC.</b>	
		OSCILLOSCOF	PΕ		A=184+-5% B=160+-5%

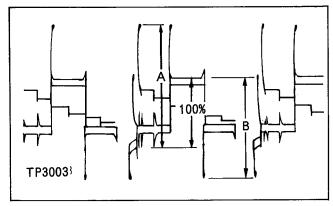


Fig. E5

#### 9. REC CHROMA LEVEL ADJUSTMENT

TP		ADJ.	МОІ	DE	INPUT
Pin 2 of P5503 (HOT) Pin 1 of P5503 (GND)		VR8001	LP MOI REC DIN	OR-	COLOUR BAR
TAPE				SPSPEC.	
BLANK TAPE	osc	CILLOSCOPE			A=28+4mVpp (CYAN)

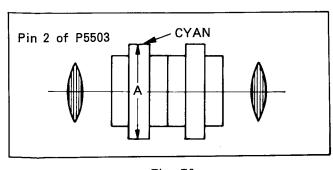


Fig. E6

Condition : Connect TP3001 to GND.

#### 10. REC VIDEO LEVEL ADJUSTMENT

ТР		ADJ. MC		DE	INPUT
Pin 2 of P5503 (HOT) Pin 1 of P5503 (GND)			VR3001 LP MODE RECOR- DING		COLOUR BAR
TAPE	MM.EQ.				SPEC.
BLANK TAPE		OSCILLO- SCOPE	,	A	=120+-5mVp-p

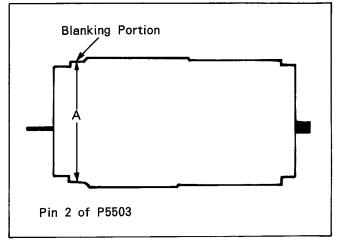


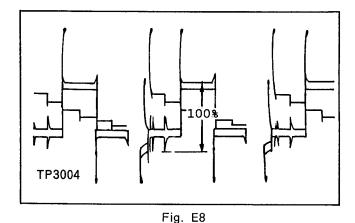
Fig. E7

#### 11. AFC ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP8006	VR8002	STOP	COLOUR BAR
TAPE	M.EQ.		SPEC.
	D.V	.М.	2.44+-0.015V

#### 12. MIX RATIO ADJUSTMENT

ТР	ADJ.	MODE		INPUT
TP3004	VR3013	SP MODE SELF RECORDI AND PLAYBAC	NG	COLOUR BAR
TAPE	M.E	<b>EQ</b> .		SPEC.
BLANK TAPE	OSILLO	SCOPE	A 10	=LESS THAN SmVp-p <sup>LUUKHZ</sup>



#### 13. PLAY BACK LEVEL ADJUSTMENT

TP	ADJ.	М	ODE	INPUT
LINE OUT	VR3012	AND	ODE RDING BACK	COLOUR BAR
TAPE	M.EQ.			SPEC.
BLANK TAPE	OSCILLO- SCOPE			.0+-0.05Vp-p> 5+-0.15Vp-p

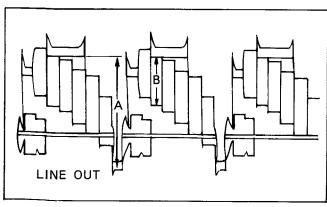


Fig. E9

## 14. VIDEO FREQUENCY RESPONCE ADJUSTMENT

TP	ADJ.	MODE	INPUT
LINE OUT	VR3010	SP MODE SELF RECORDING AND PLAYBACK	RF SWEEP SIGNAL
TAPE	M.EQ.		SPEC.
BLANK TAPE		SWEEP GEN. OSCOPE	A: B=0dB (A=B)

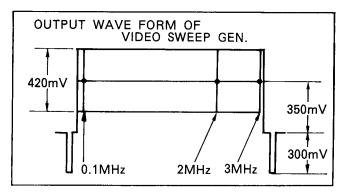


Fig. E10

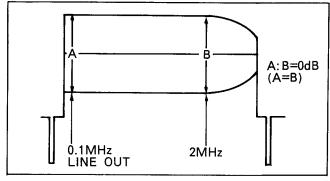


Fig. E11

#### 15. 0.5H DELAY LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP8001	VR8005	LP MODE SELF RECORDING AND PLAYBACK	COLOUR BAR
TAPE	l	M.EQ.	SPEC.
BLANK TAPE	OSCI	LLOSCOPE	A=2.0+- 0.1Vp-p

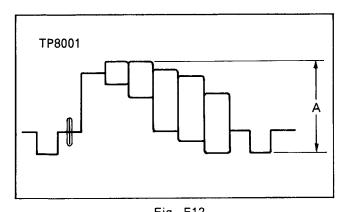


Fig. E12

#### 16. JUMPING AFC ADJUSTMENT

ТР	ADJ.	MODE	INPUT
TP8003	VR8006	LP MODE PLAYBACK	
TAPE		M.EQ.	SPEC.
BLANK (NON- RECORDED)	l co	EQUENCY UNTER	22.2KHz+- 100Hz

#### Condition:

Make short jumper between pin14 of P3001 and TPB8002through 10Kohm resistor.

## 17. PHASE ANVERSION OUTPUT LEVEL ADJUSTMENT

11000	ADOUDITHERE				
TP	ADJ.	MODE	INPUT		
LINE OUT	VR8007	LP MODE SELF RECORDING AND PLAYBACK	COLOUR BAR		
TAPE	M.EQ.		SPEC.		
BLANK TAPE	OSCILLO VIDEO F	OSCOPE PATTERN GEN	A-B=0+- 30mVp-p		

- (1) Connect the oscilloscope at LINE OUT and read

  A as the peak to peak level
- A as the peak to peak level.
  (2) Connect TP8004 and TP8005 to the GND and read
- B as the peak to peak level.

  (3) Adjust VR8007 so that A-B becomes 0 +- 30mVp-p.

#### AUDIO SECTION

#### 18. AUDIO BIAS CURRENT ADJUSTMENT

Т	Ъ	ADJ.	MODE		INPUT
TP4002 TP4003	(HOT) (GND)	VR4002		MODE CORDING	NO SIGNAL
TAPE	1	M.EQ.		S	PEC.
BLANK TAPE	OSCILL AC MI METER	OSCOPE LLIVOLT	or	7. +-0 2.7+-0	. mVp-p or .1mVrms

## 19. AUDIO PLAYBACK LEVEL ADJUSTMENT

TP		ADJ.	MODE	INPUT
TP400	)1	VR4001	SP MODE SELF RECORDING AND PLAYBACK	(AUDIO MIC IN) 1KHz, -60dB
TAPE		N	И.EQ.	SPEC.
BLANK TAPE	A	MILL	GENERATOR IVOLT METER LOSCOPE	-8+-1dB

#### SYSTEM CONTROL SECTION

#### 20. UNDER CUT ADJUSTMENT

TP		ADJ.	MODE	INNPUT	
TP600	1 VR6001 <sup>7</sup>		1 VR6001, CAMERA RECORDING		8.8+-0.05V (To P1001)
TAPE		M.	SPEC.		
	D.\	POWER S V.M. CILLOSCO			

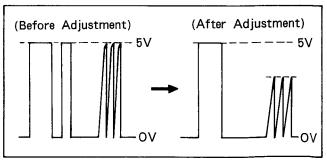


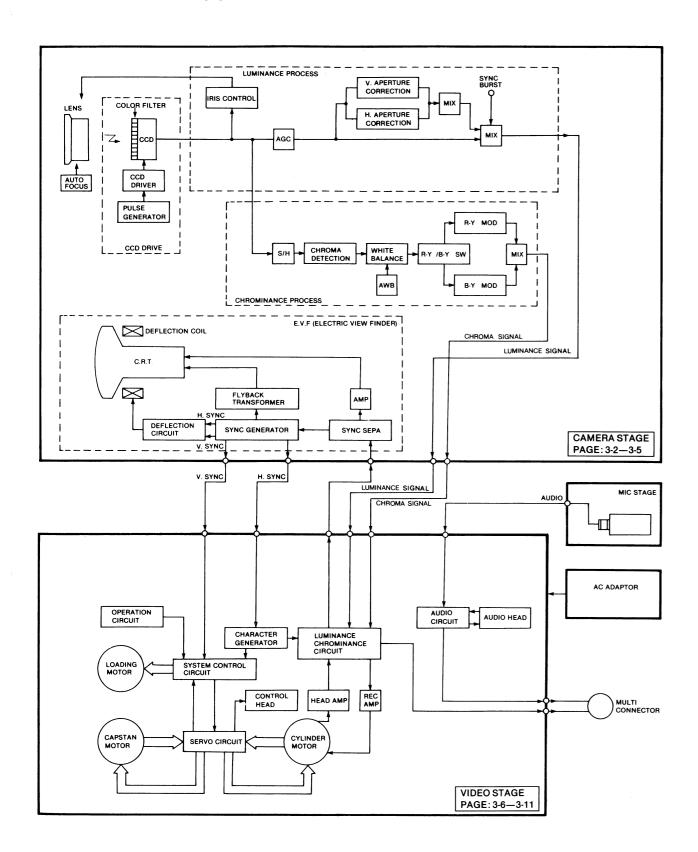
Fig. E13

#### Condition:

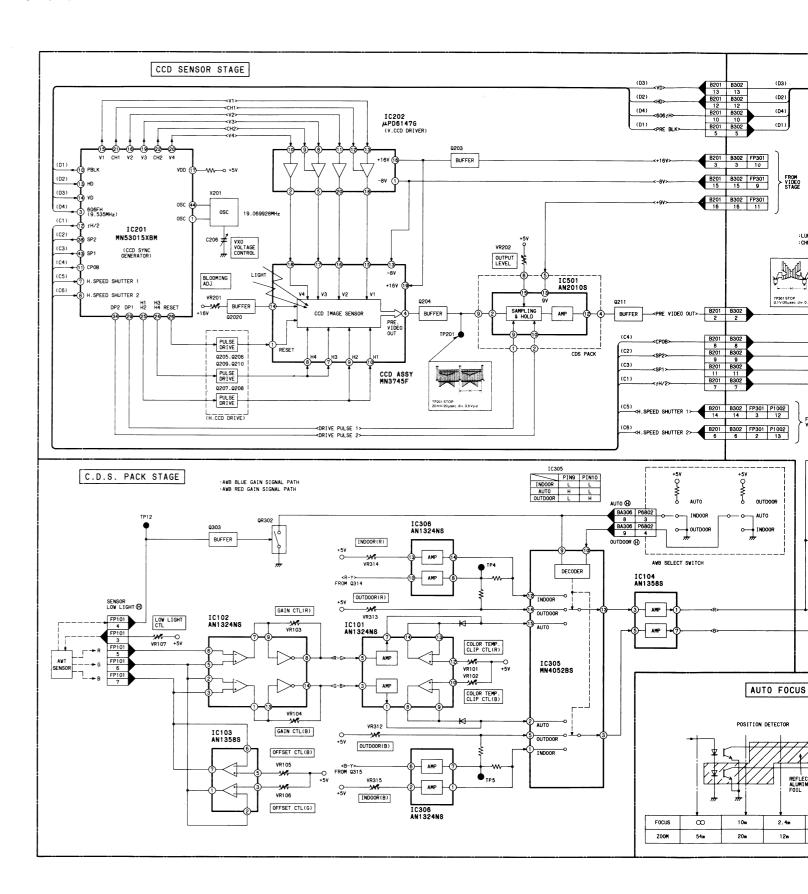
Do not connect AC Adaptor, Connect a DC Power Supply to pin1 (-) and Pin2 (+) of P1001, then supply the voltage 8.8 +- 0.05V DC.

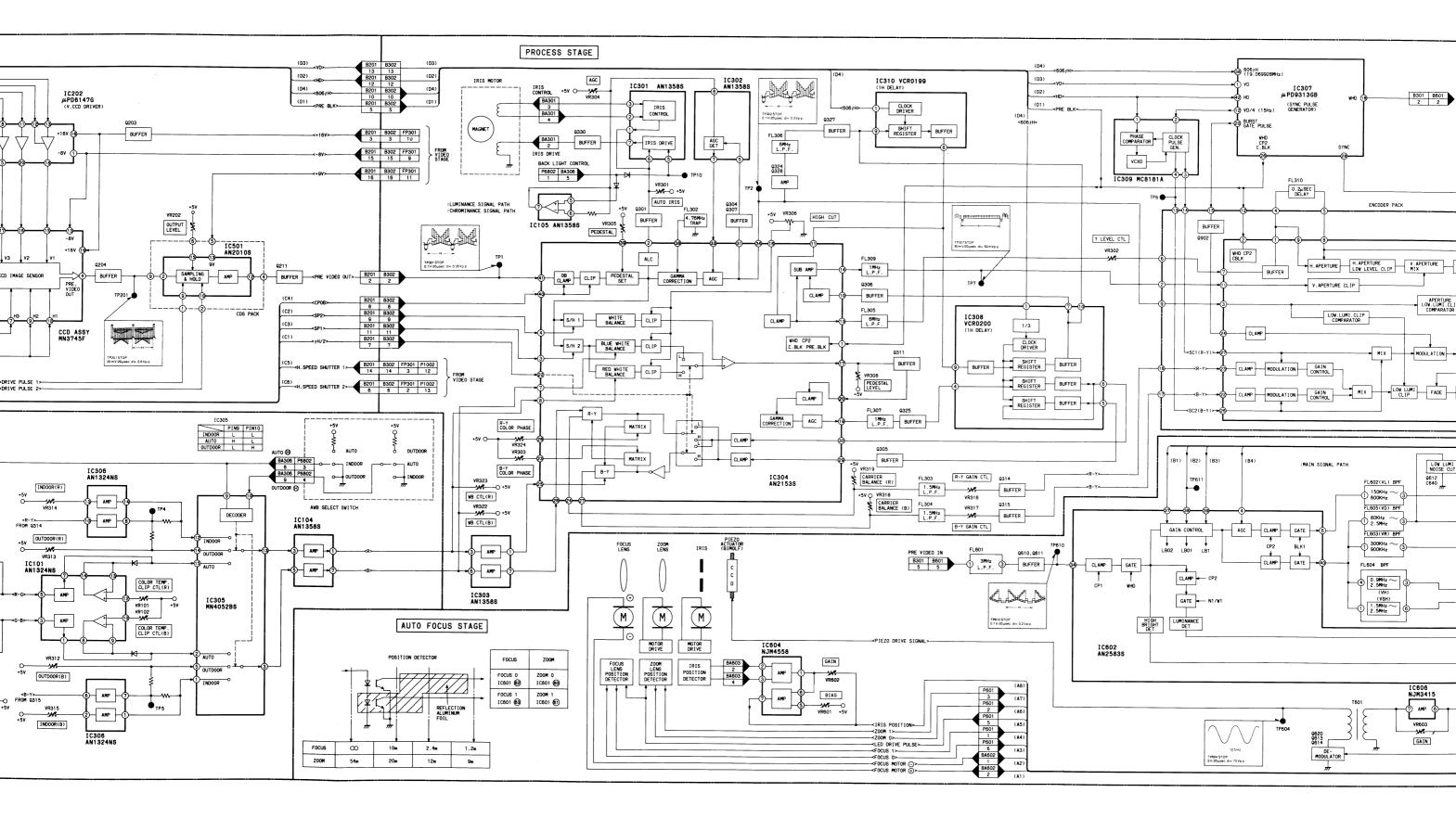
## SECTION 3

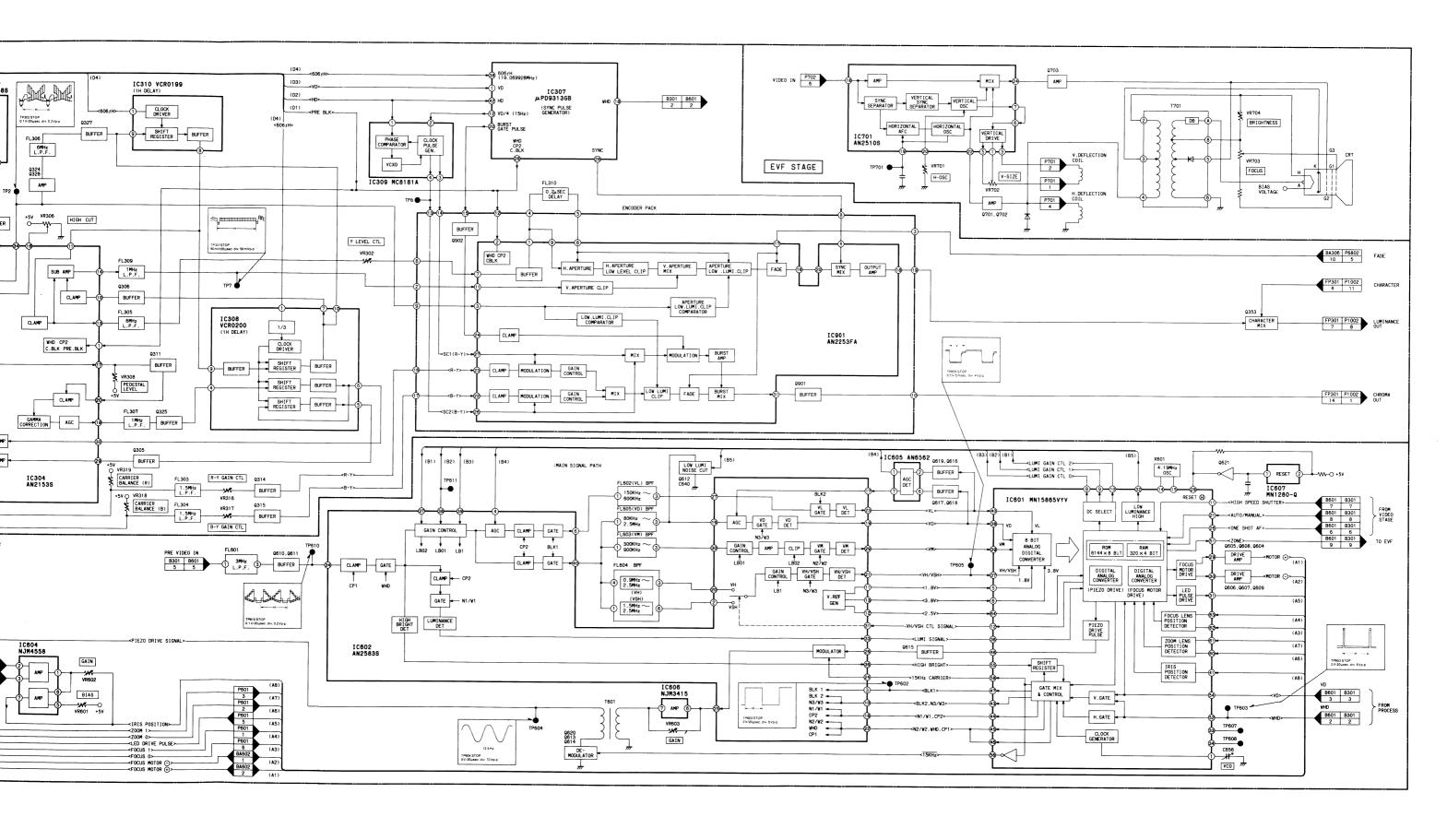
# BLOCK DIAGRAMS & SCHEMATIC DIAGRAMS 3-1. OVERALL BLOCK DIAGRAM



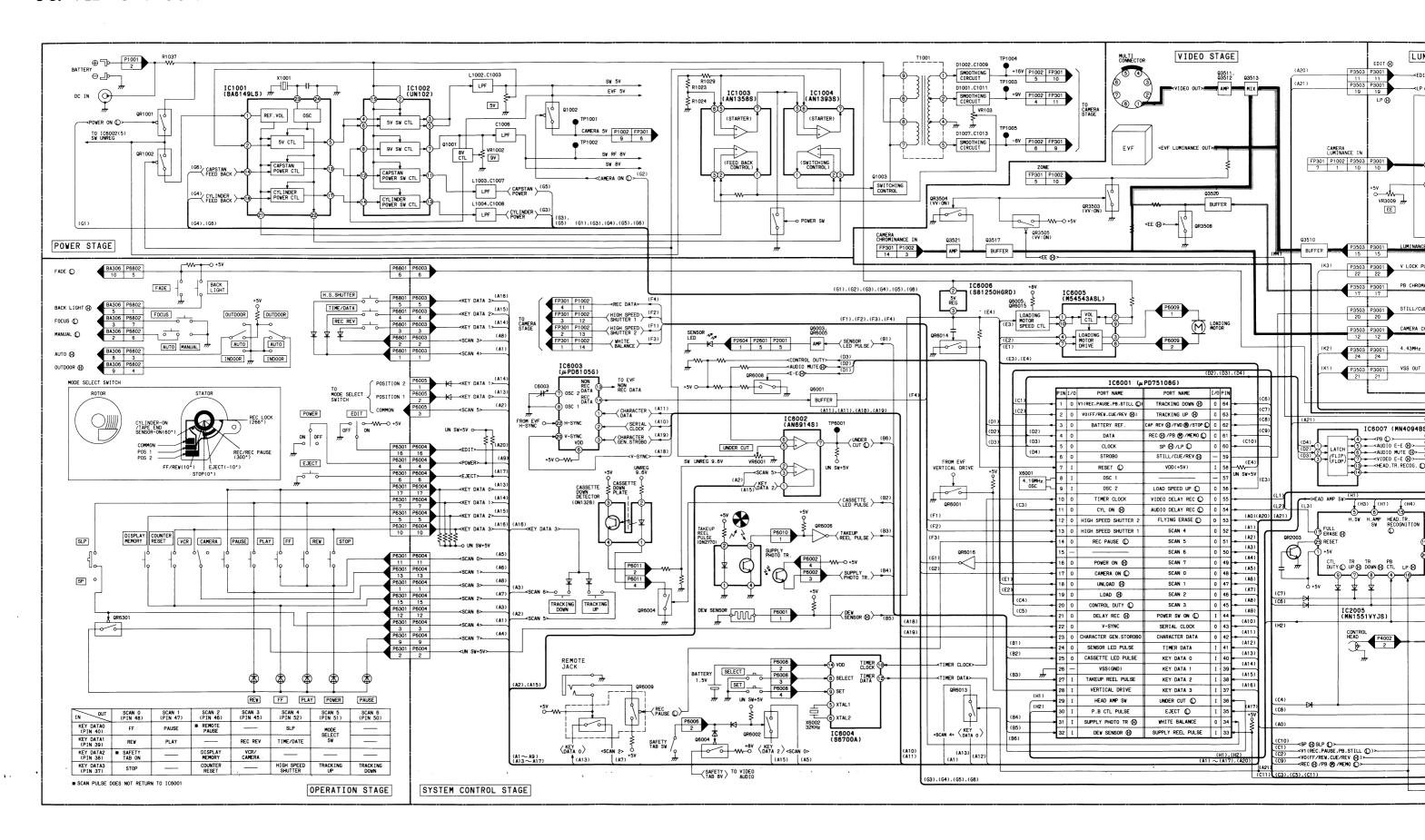
#### 3-2. CAMERA PROCESS BLOCK DIAGRAM



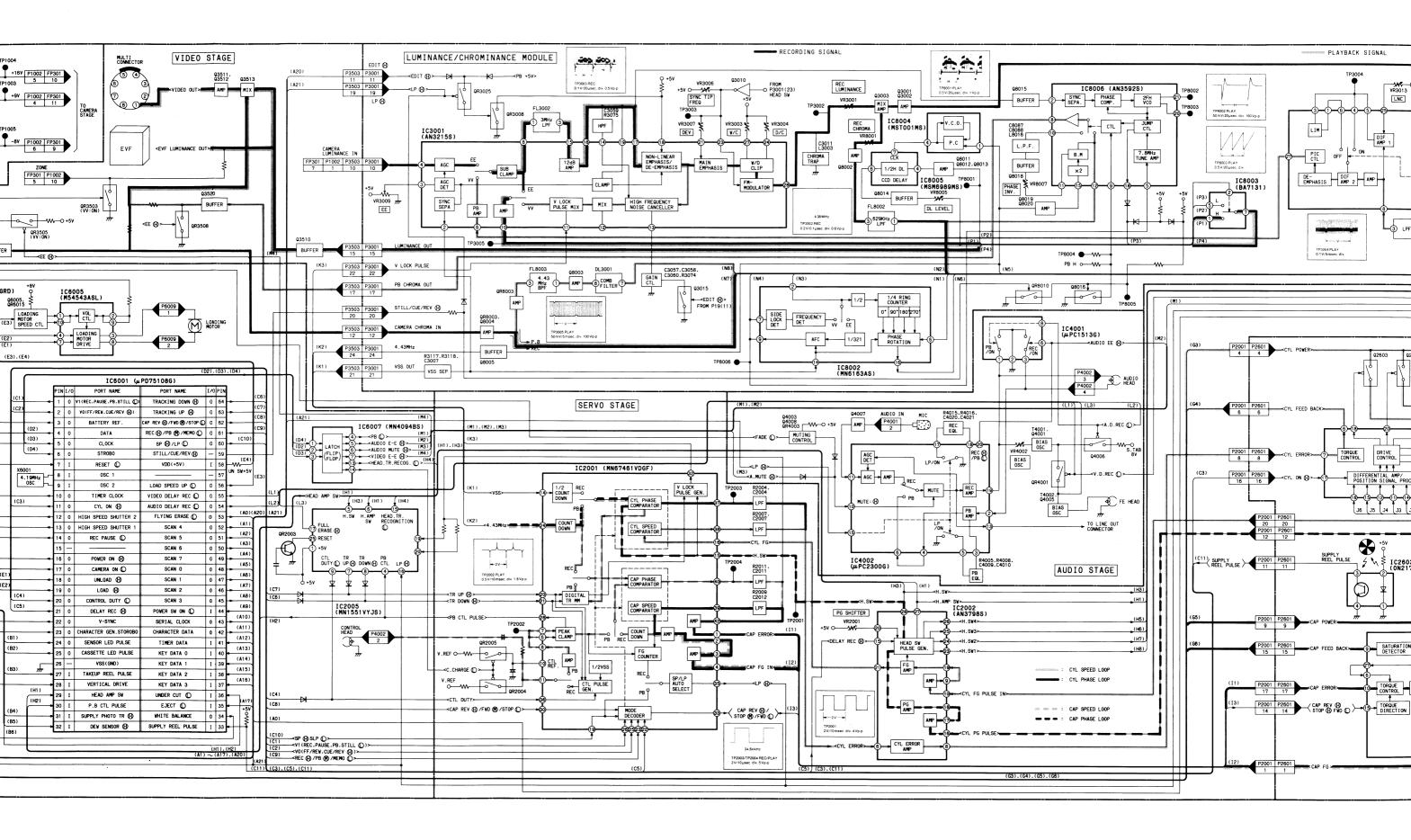


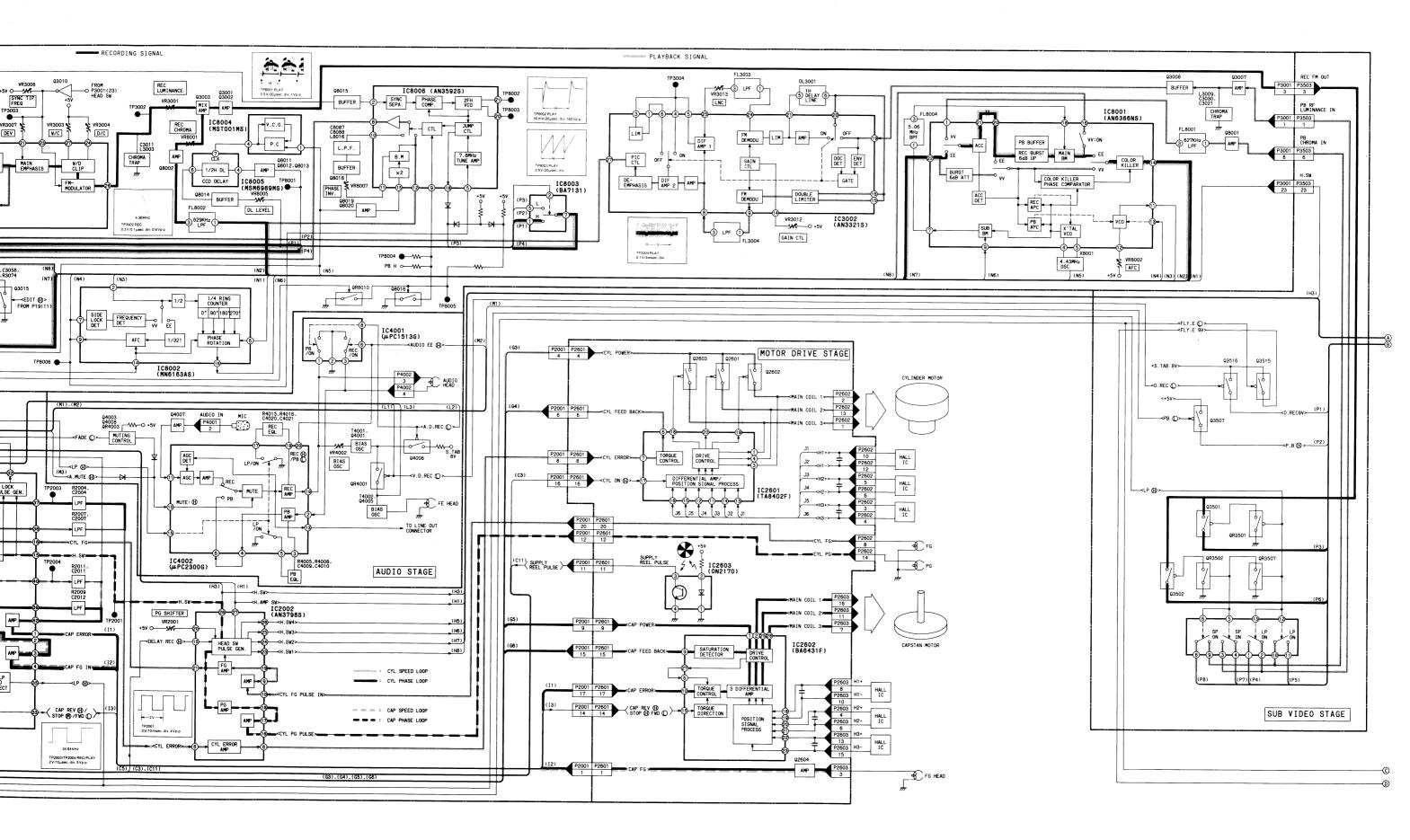


#### 3-3. VIDEO RECORDER PROCESS BLOCK DIAGRAM



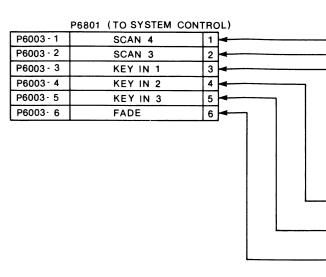
3---6





# 

#### 3-4. CAMERA OPERATION SCHE



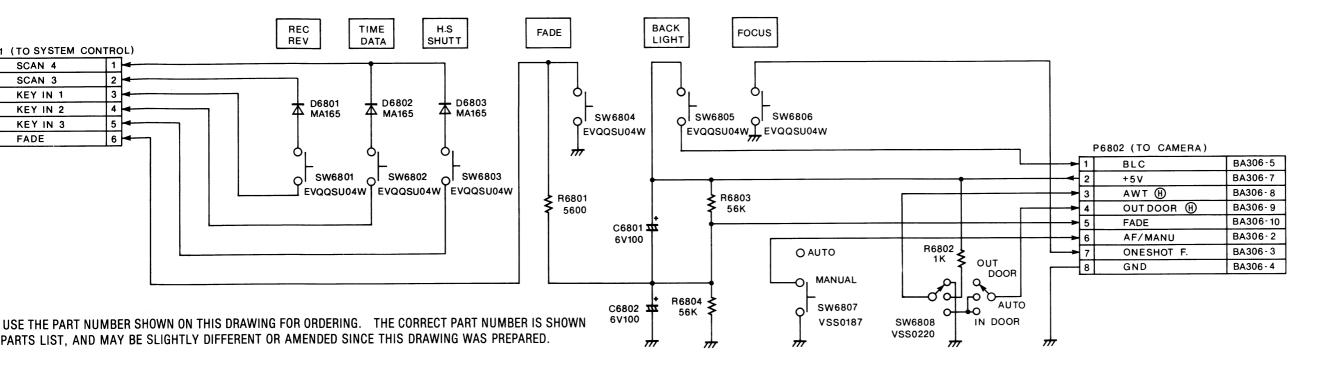
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS I IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFF

### **3-5. CAME**

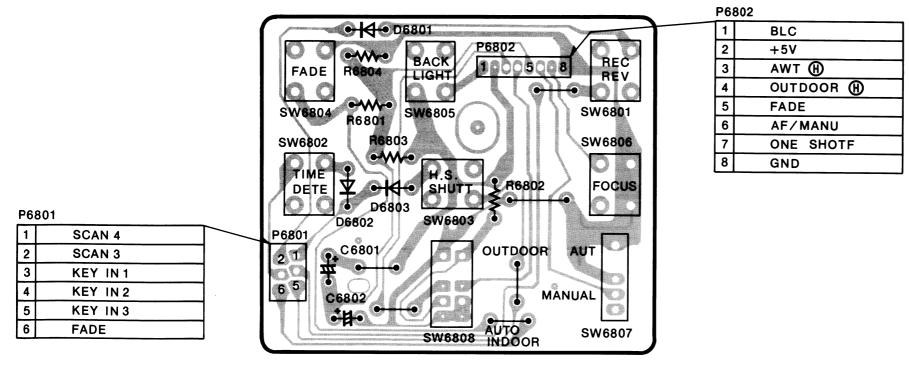
#### P6801

1	SCAN
2	SCAN
3	KEY
4	KEY
5	KEY
6	FADE

#### RA OPERATION SCHEMATIC DIAGRAM



#### 3-5. CAMERA OPERATION C.B.A. (VEP06445A)

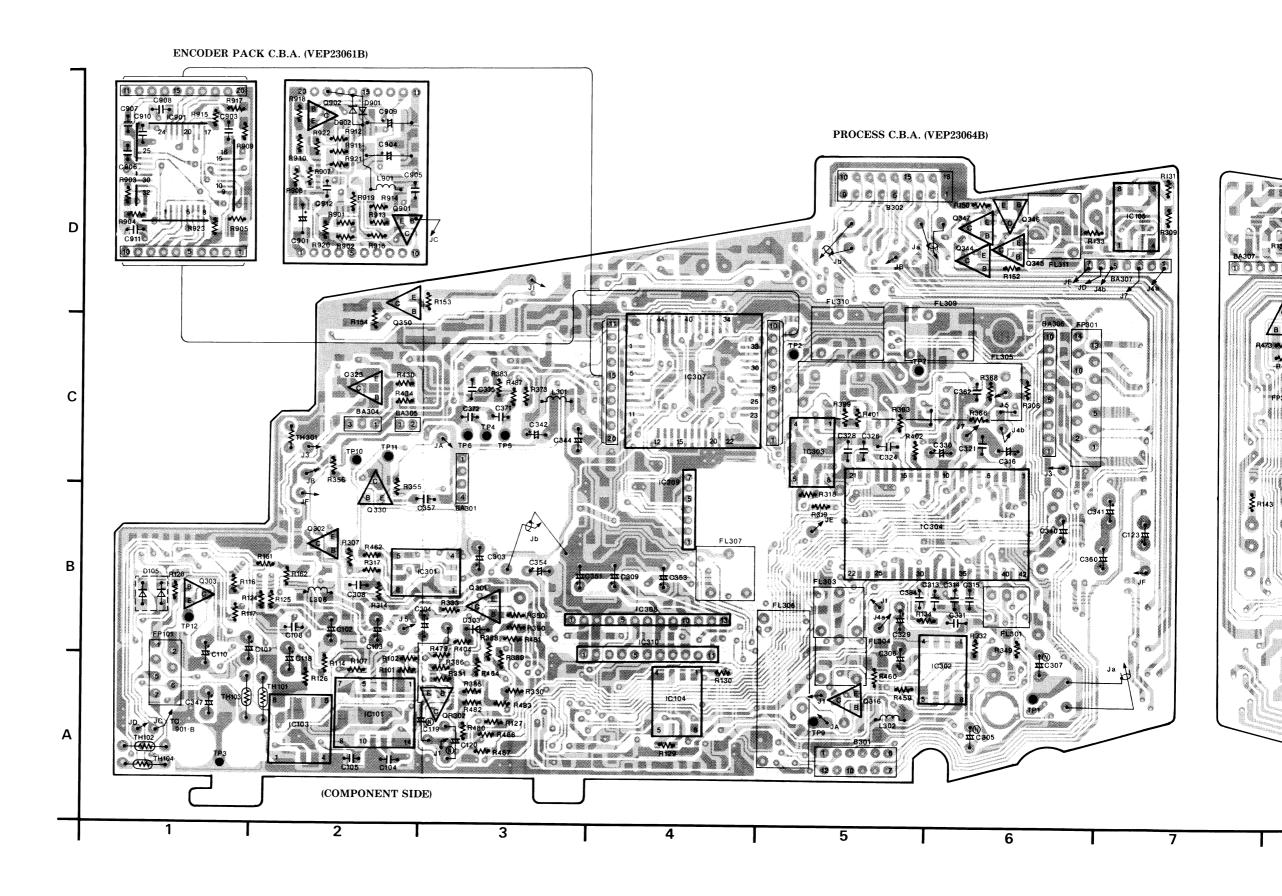


3-13

PROCESS & ENCODER PACK C.B.A.								
Transistor		TP3	A-1 ©					
2004	D0 @	TP3	A-13 🕑					
Q301	B-3 © B-2 ©	TP4	C-3 ©					
Q302	B-2 © B-1 ©	TP4	C-11 🕞					
Q303		TP5	C-3 ©					
Q304	_	TP5	C-11 🖺					
Q305	_	TP6	C-3 ©					
Q306	A-11 🖺	TP6	C-11 🕞					
Q307	B-9 (Ē	TP7	C-5 ©					
Q308	B-8 (Ē) C-9 (Ē)	TP7	C-9 🕑					
Q311		TP8	B-3 ©					
Q314 Q315	B-10 (Ē) A-10 (Ē)	TP8	B-11 🕞					
Q316	A-5 ©	TP9	A-5 ©					
	l	TP9	A-9 🕑					
Q318	C-12 (Ē) C-12 (Ē)	TP10	C-2 ©					
Q319 Q320	C-12 (F)	TP10	C-12 🕑					
Q320 Q321	C-12 ®	TP11	C-2 ©					
Q321 Q322	C-12 (F)	TP11	C-12 🕑					
Q323	C-2 ©	TP12	B-1 ©					
Q323	A-11 (F)	TP12	B-13 🗈					
Q324 Q325	B-11 (F)	Adjustment						
Q327	B-10 (F)							
Q328	A-10 (f)	VR101	A-12 🕞					
Q330	B-2 ©	VR102	A-12 🕞					
Q331	D-8 🗊	VR103	B-13 (F)					
Q332	B-8 🕞	VR104	B-13 ©					
Q339	B-12 🕞	VR105	A-12 ①					
Q340	B-12 🕞	VR106	A-12 ①					
Q344	D-6 ©	VR107 VR301	B-12 (Ē)					
Q345	D-6 ©	VR301 VR302	B-12 (Ē) C-9 (Ē)					
Q346	D-6 ©	VR302 VR303	B-10 (Ē)					
Q347	D-6 ©	VR304	B-10 (C)					
Q348	D-8 (Ē)	VR305	B-8 (Ē)					
Q350	D-2 ©	VR306	C-9 (F)					
Q351	C-12 🕑	VR308	A-9 (Ē)					
Q353	C-8 🗈	VR312	B-11 ⑤					
Q901	D-2 🕑	VR313	B-11 ⑤					
Q902	E-2 🕑	VR314	C-11 🗊					
Transistor & R	esistor	VR315	C-12 🕞					
QR302	A-3 ©	VR316	B-9 🕞					
		VR317	A-10 🕑					
Integrated Circ	cuit	VR318	A-10 (Ē)					
IC101	A-2 ©	VR319	A-9 (Ē)					
IC102	B-13 (F)	VR322	C-8 ©					
IC103	A-2 ©	VR323	C-9 (Ē)					
IC104	A-4 ©	VR324	B-9 ⑤					
IC105	D-7 ©	VR325	D-8 (Ē)					
IC301	B-3 ©	Connector						
IC302	A-6 ©	P201	A.5 @					
IC303	C-5 ©	B301 B301	A-5 ©					
IC304	B-6 ©	B301 B302	A-9 (Ē D-5 (©					
IC305	A-11 🕑	B302	D-9 (F)					
IC306	C-11 🕞	BA301	B-3 ©					
IC307	C-4 ©	BA301	C-11 🖺					
IC308	B-4 ©	BA304	C-2 ©					
IC309	C-4 ©	BA304	C-12 🗊					
IC310	B-4 ©	BA305	C-2 ©					
IC901	E-1 ©	BA305	C-12 🕞					
Test Point		BA306	D-6 ©					
TP1	A-6 ©	BA306	C-8 (F)					
TP1	A-8 (F)	BA307	D-7 ©					
TP2	C-5 ©	BA307	D-7 🖺					
TDO	C-10 🕞		1					
TP2								

ADDRESS INFORMATION

© ··· COMPONENT SIDE © ··· FOIL SIDE

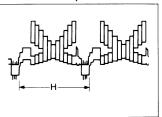


Back Page: CAMERA OPERATION Section

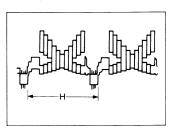


3—17

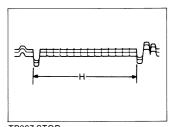
#### PROCESS MAIN CIRCUIT TP (Test Point) WAVE FORM (REF No. 300 Series)



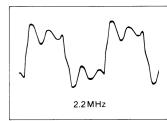
TP301 STOP 0.1 V/20μsec. div. 0.35 Vp-p



TP302 STOP 0.1 V/20μsec. div. 0.3 Vp-p

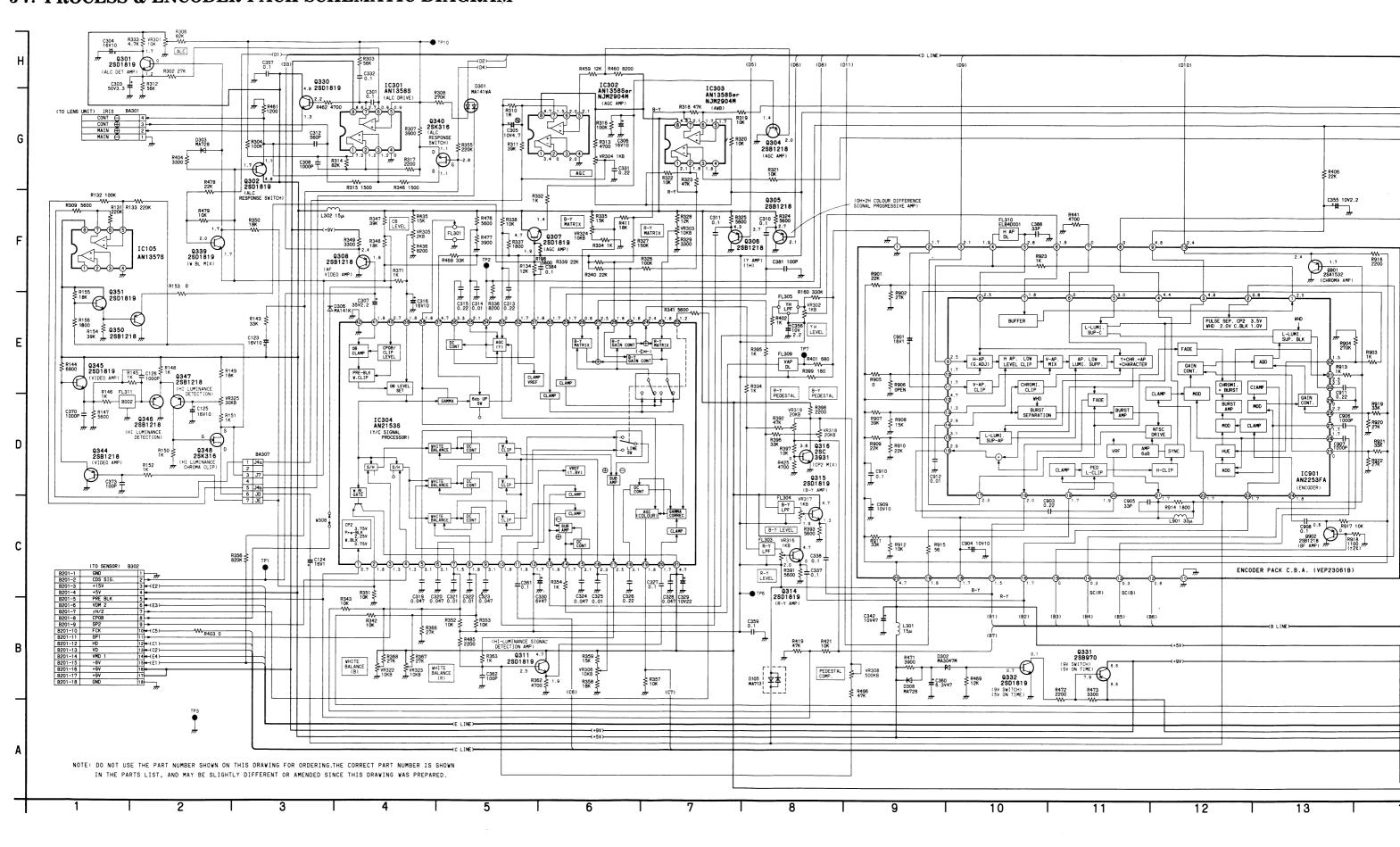


TP307 STOP 50 mV/20µsec. div. 50 mVp-p

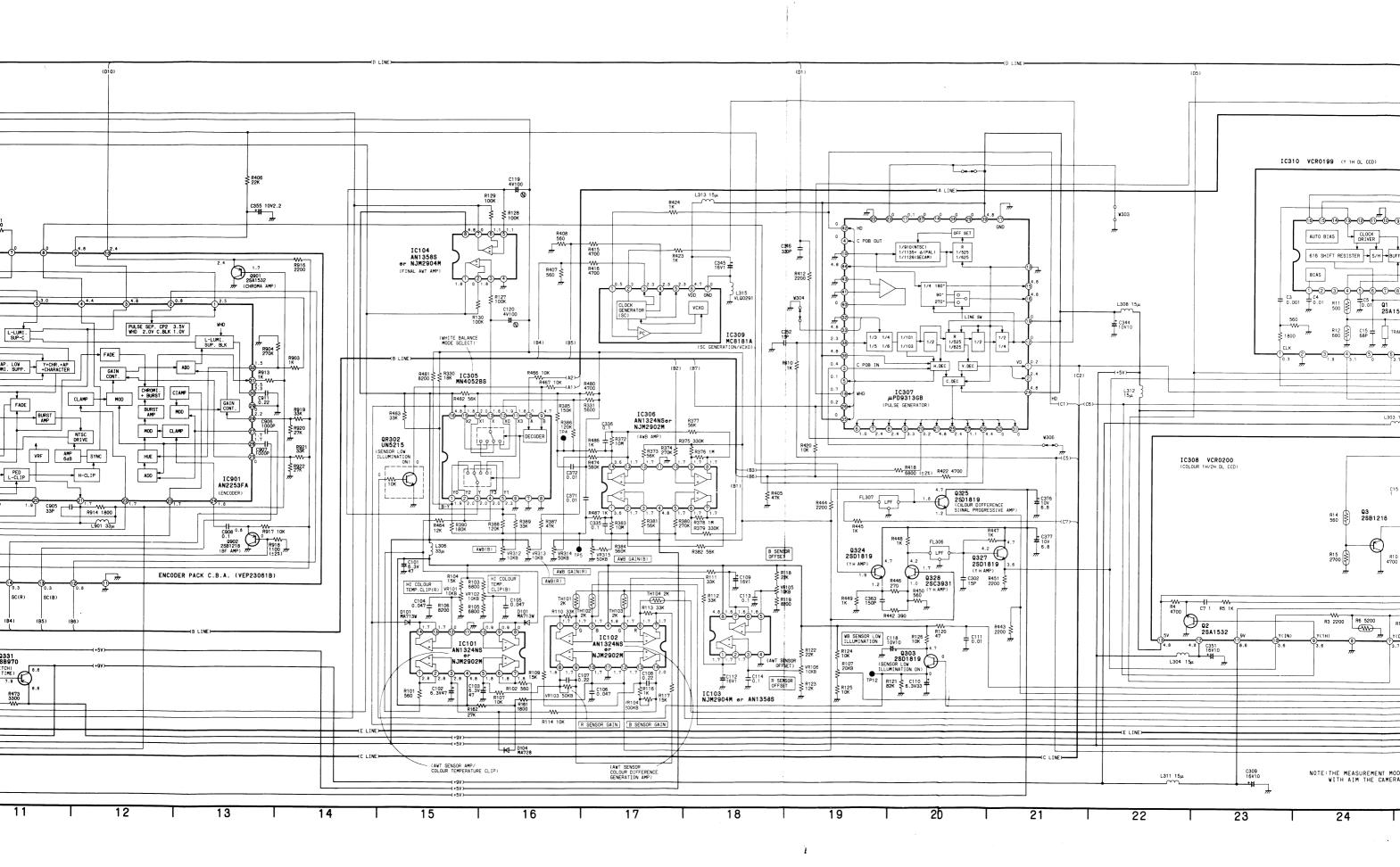


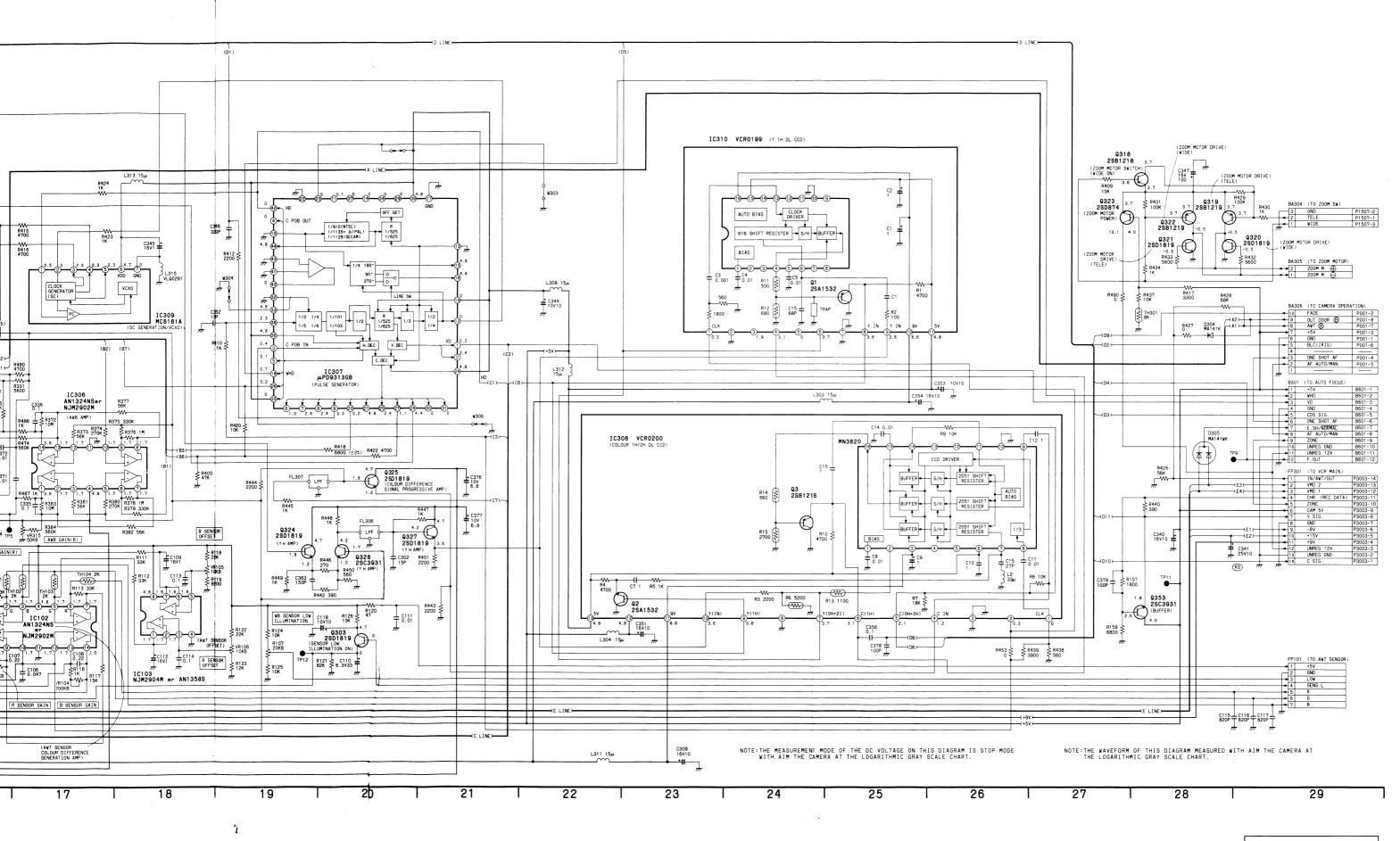
TP308 STOP 0.2 V/50 μsec. div. 8 Vp-p

#### 3-7. PROCESS & ENCODER PACK SCHEMATIC DIAGRAM



3-19



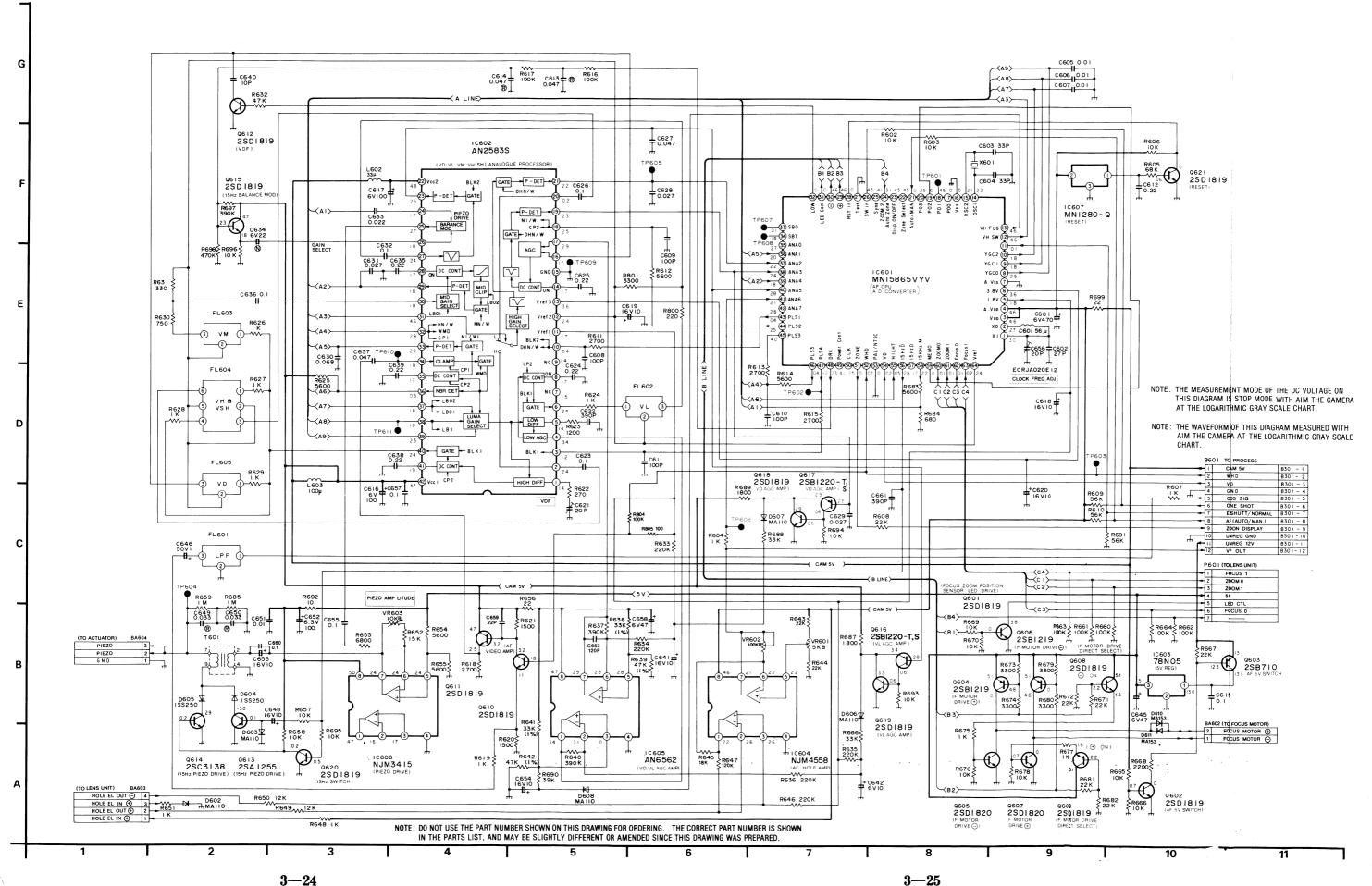


3-23

Next Page: AUTO FOCUS Section

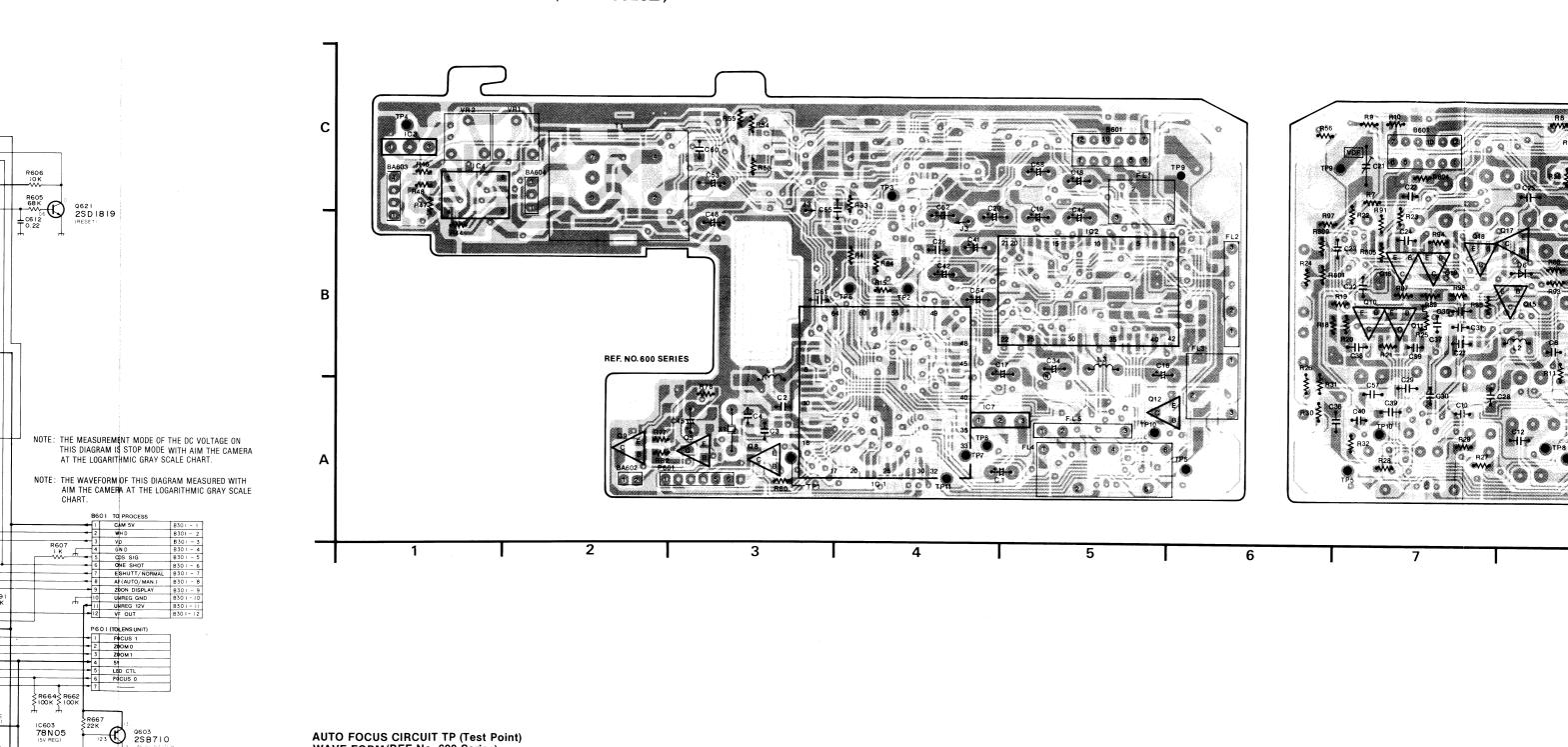
**AUTO F** WAVE

TP602 ST

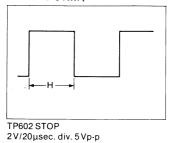


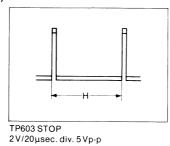
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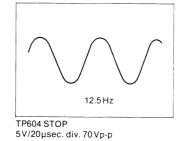
## 3-9. AUTO FOCUS C.B.A. (VEP28015B)

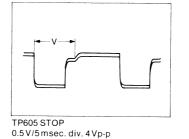


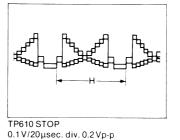
## AUTO FOCUS CIRCUIT TP (Test Point) WAVE FORM(REF No. 600 Series)

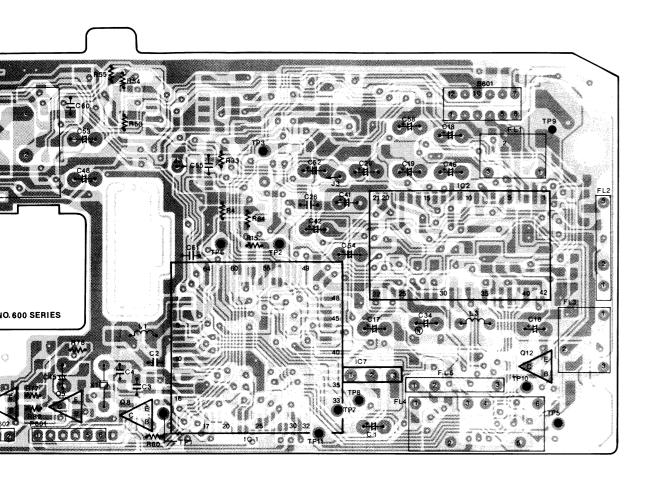


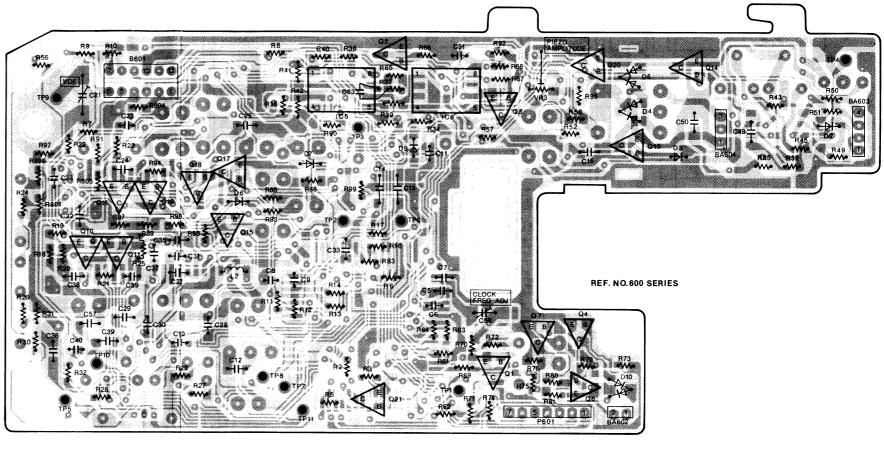


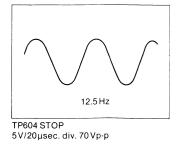




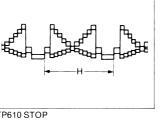








TP605 STOP 0.5 V/5 msec. div. 4 Vp-p



TP610 STOP	
0.1 V/20usec div 0.2 Vn-n	

AUTO FOCUS	C.B.A.				
Transistor		Integrated Circuit		TP608	A-4 ©
Q601 Q602 Q603 Q604 Q605 Q606	A-9 © C-9 © C-9 © A-10 © A-3 © A-10 ©	IC601 IC602 IC603 IC604 IC605 IC606	A-4 © B-5 © C-1 © C-1 © C-8 © C-9 ©	TP608 TP609 TP609 TP610 TP610 TP611 TP611	A-8 ① C-6 ② C-7 ① A-5 ② A-7 ① A-4 ② A-8 ①
Q607 Q608	B-9 (Ē) A-3 (©)	Test Point  A-4 © Adjustment			
Q609 Q610 Q611 Q612 Q613	A-2 © B-7 © B-7 © A-5 © C-10 ©	TP601 TP601 TP602 TP602 TP603	A-3 © A-9 © B-4 © B-8 © C-4 ©	VR601 VR602 VR603 C621 C656	C-2 © C-1 © C-9 ① C-7 ① B-9 ①
Q614 Q615 Q616	C-10 (F) B-8 (F) B-7 (F)	TP603 TP604	C-4 © C-8 ® C-1 ©	Connector P601	A-10 (Ē)
Q617 Q618 Q619 Q620 Q621	B-8 © B-7 © B-8 © C-10 © A-9 ©	TP604 TP605 TP605 TP606 TP606 TP607	C-12 © A-6 © A-7 © B-4 © B-9 © A-4 ©	P601 B601 B601 BA602 BA603 BA603	A-2 © C-5 © C-7 © A-2 © C-11 ©
		TP607	A-8 ①	BA604 BA604	C-2 © B-11 ①

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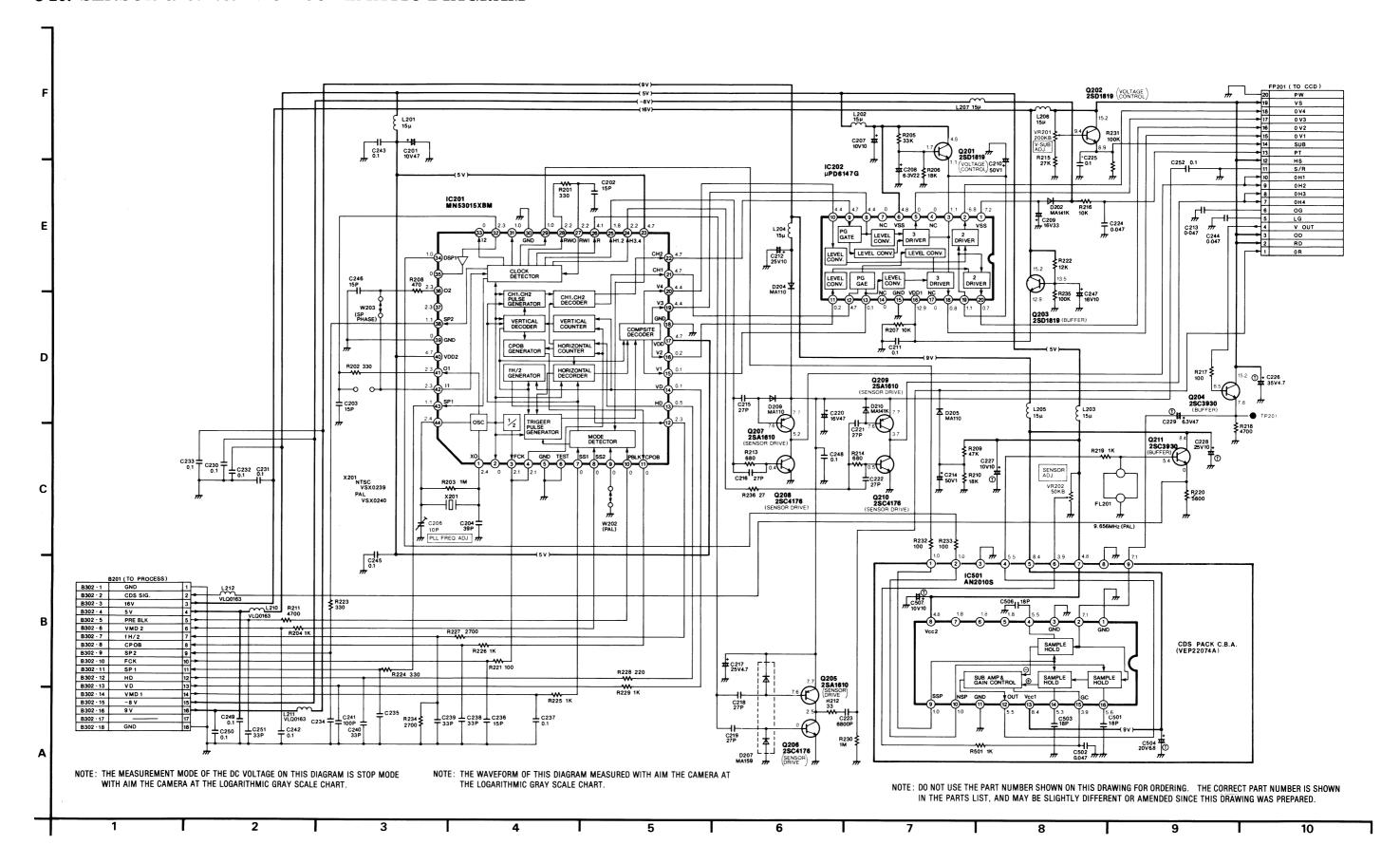
© ··· COMPONENT SIDE

① ··· FOIL SIDE

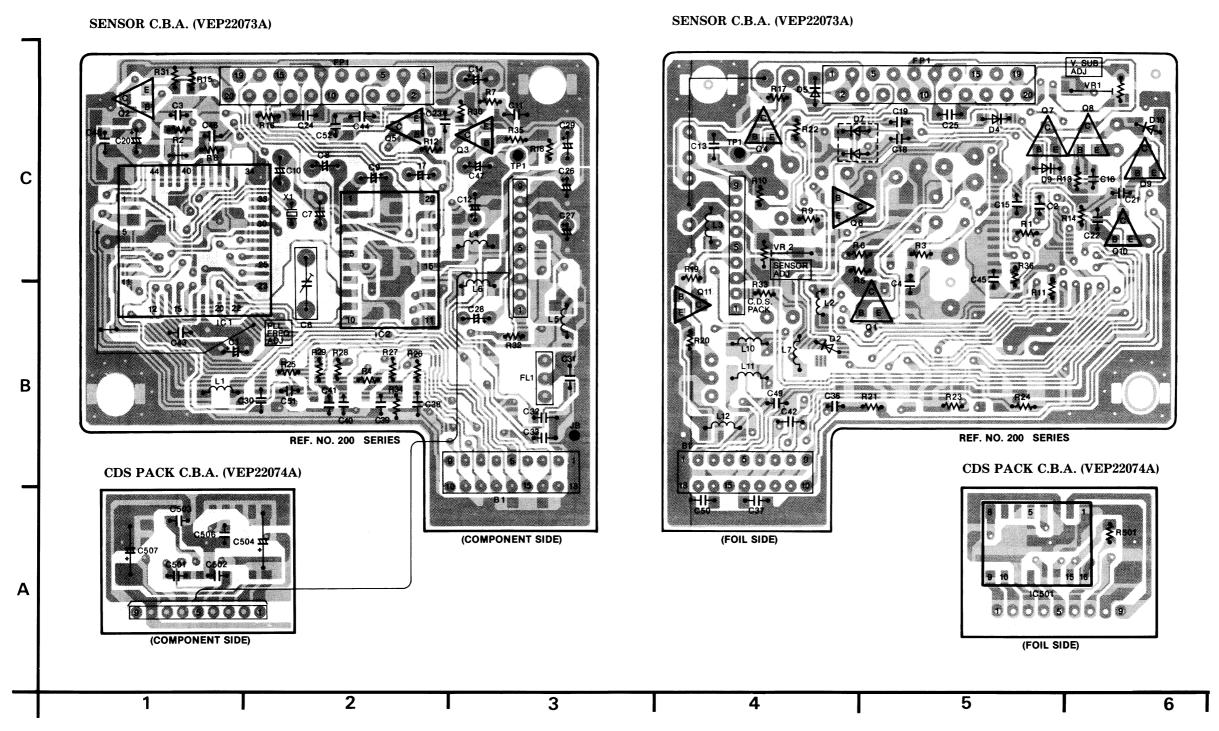
3-27

3-28

#### 3-10. SENSOR & C.D.S. PACK SCHEMATIC DIAGRAM



#### 3-11. SENSOR C.B.A. (VEP22073A) & C.D.S. PACK C.B.A. (VEP22074A)



## SENSOR & C.D.S. PACK C.B.A. Transistor B-5 © C-1 © C-3 © C-4 © C-2 © C-5 © C-5 © C-6 © C-6 © B-4 © Q202 Q203 Q204 Q205 Q206 Q207 Q208 Integrated Circuit B-1 © B-2 © B-3 © A-5 © fC201 IC202 Test Point TP201 TP201 C-3 © C-4 Đ Adjustment C-6 (Ē) C-4 (Ē)

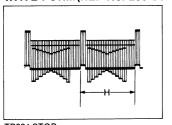
#### ADDRESS INFORMATION

D-2 © A-3 ©

- © · · · COMPONENT SIDE
- ⑥ ··· FOIL SIDE

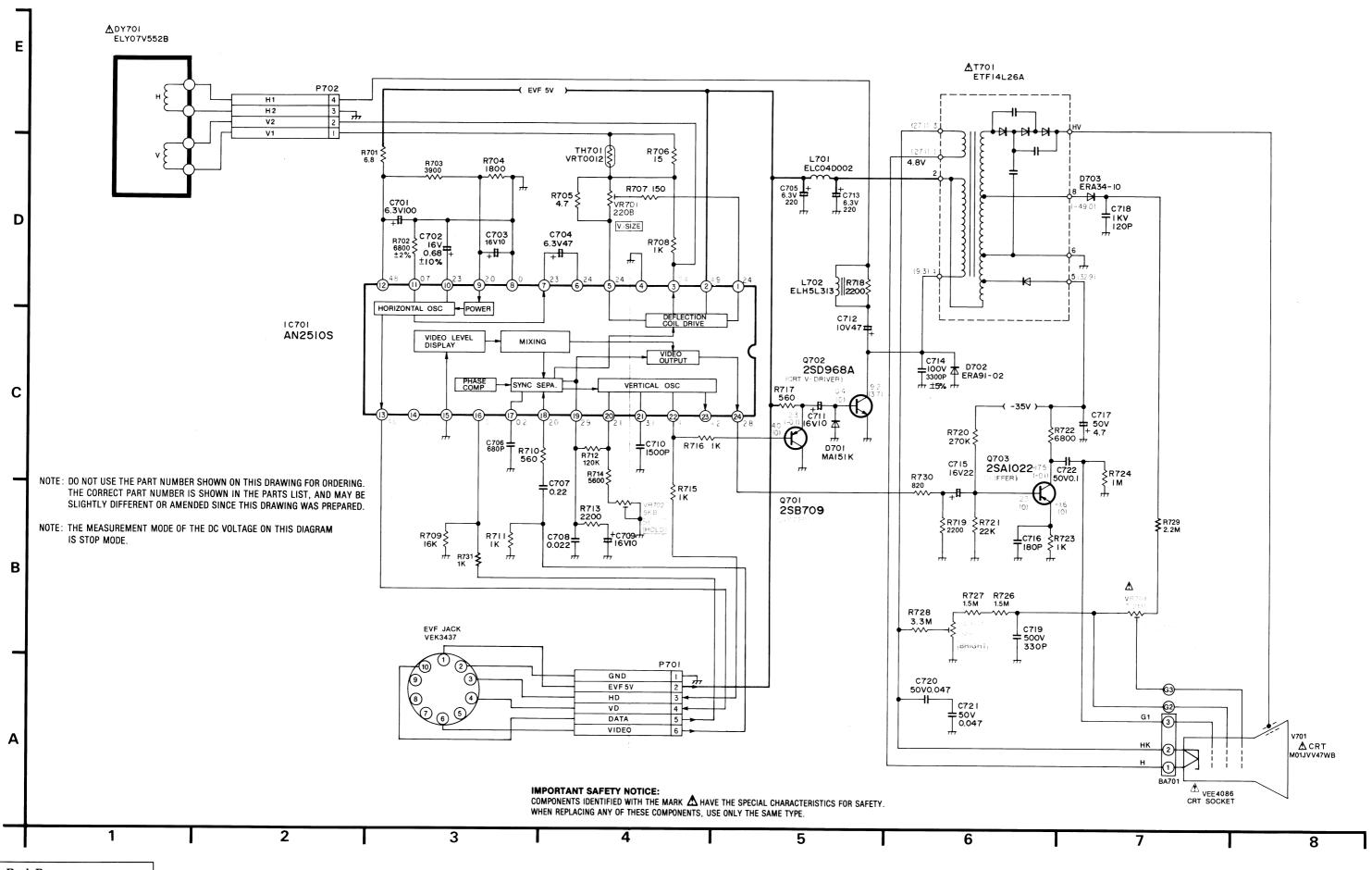
FP201

## SENSOR CIRCUIT TP (Test Point) WAVE FORM(REF No. 200 Series)



TP201 STOP 20 mV/20µsec. div. 0.6 Vp-p

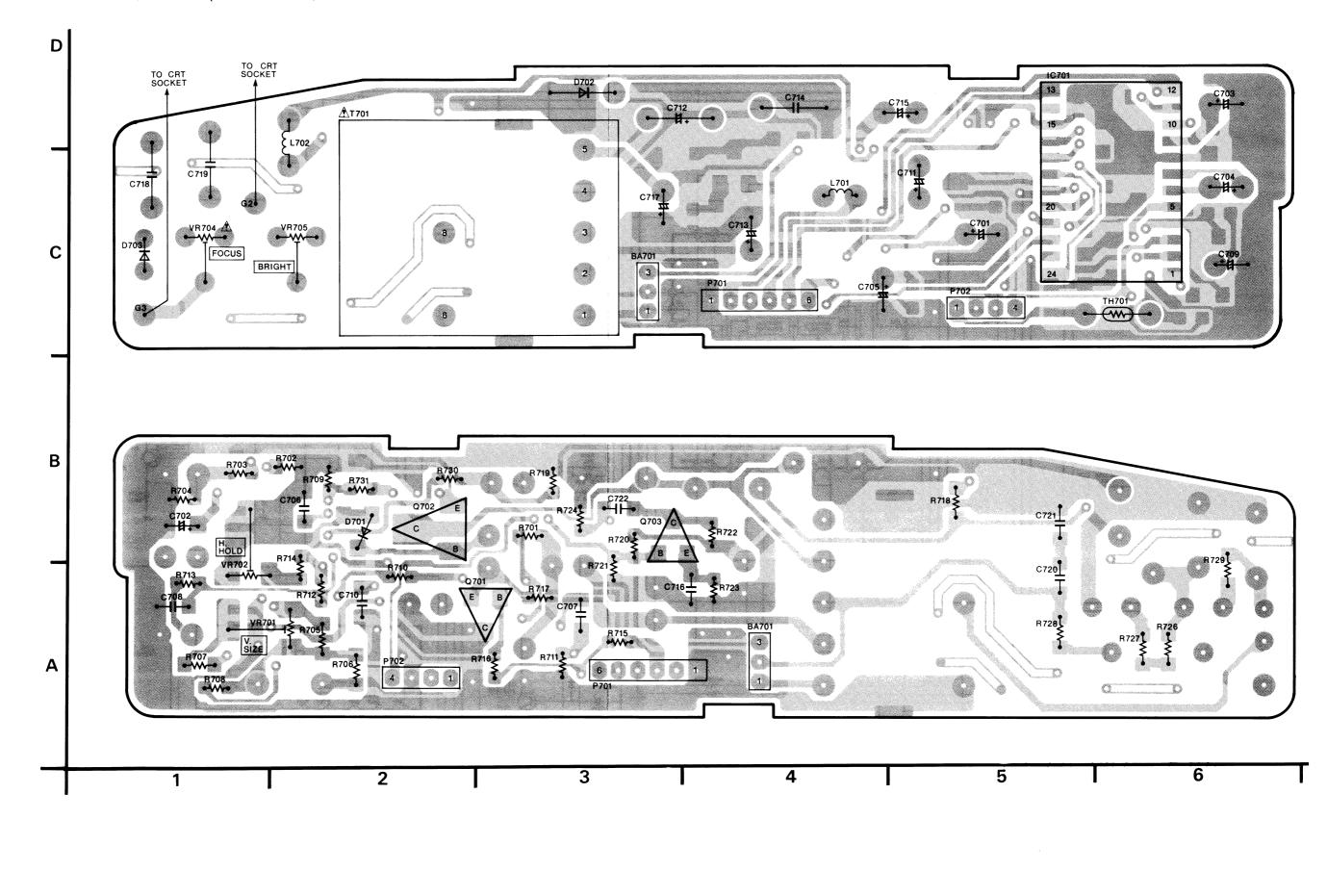
#### 3-12. E.V.F. SCHEMATIC DIAGRAM



Back Page: SENSOR & C.D.S. Section

3—33

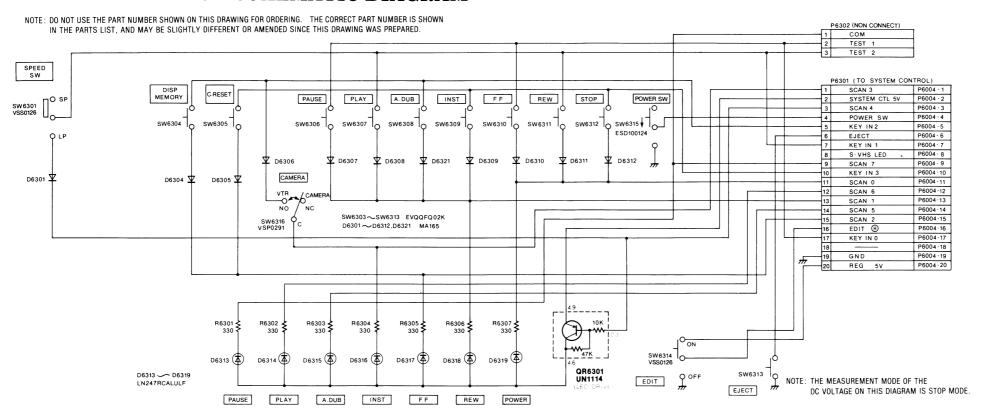
3 - 34



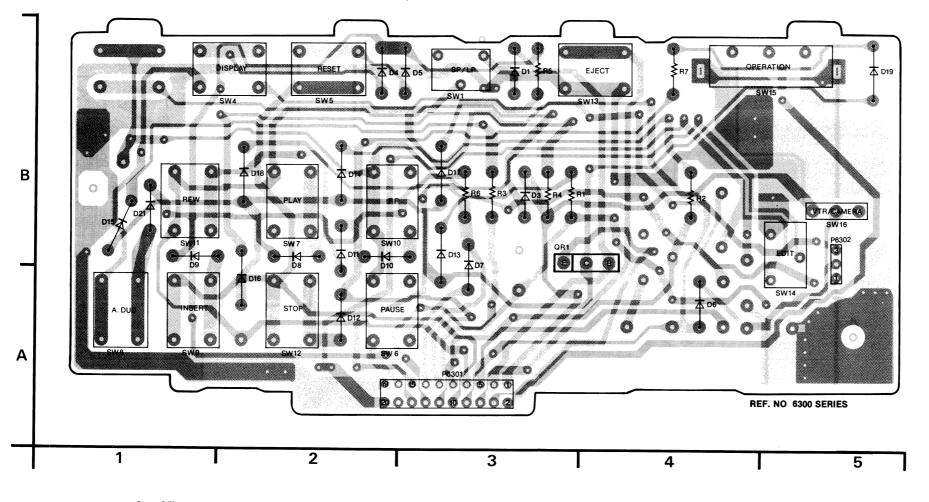
3-35

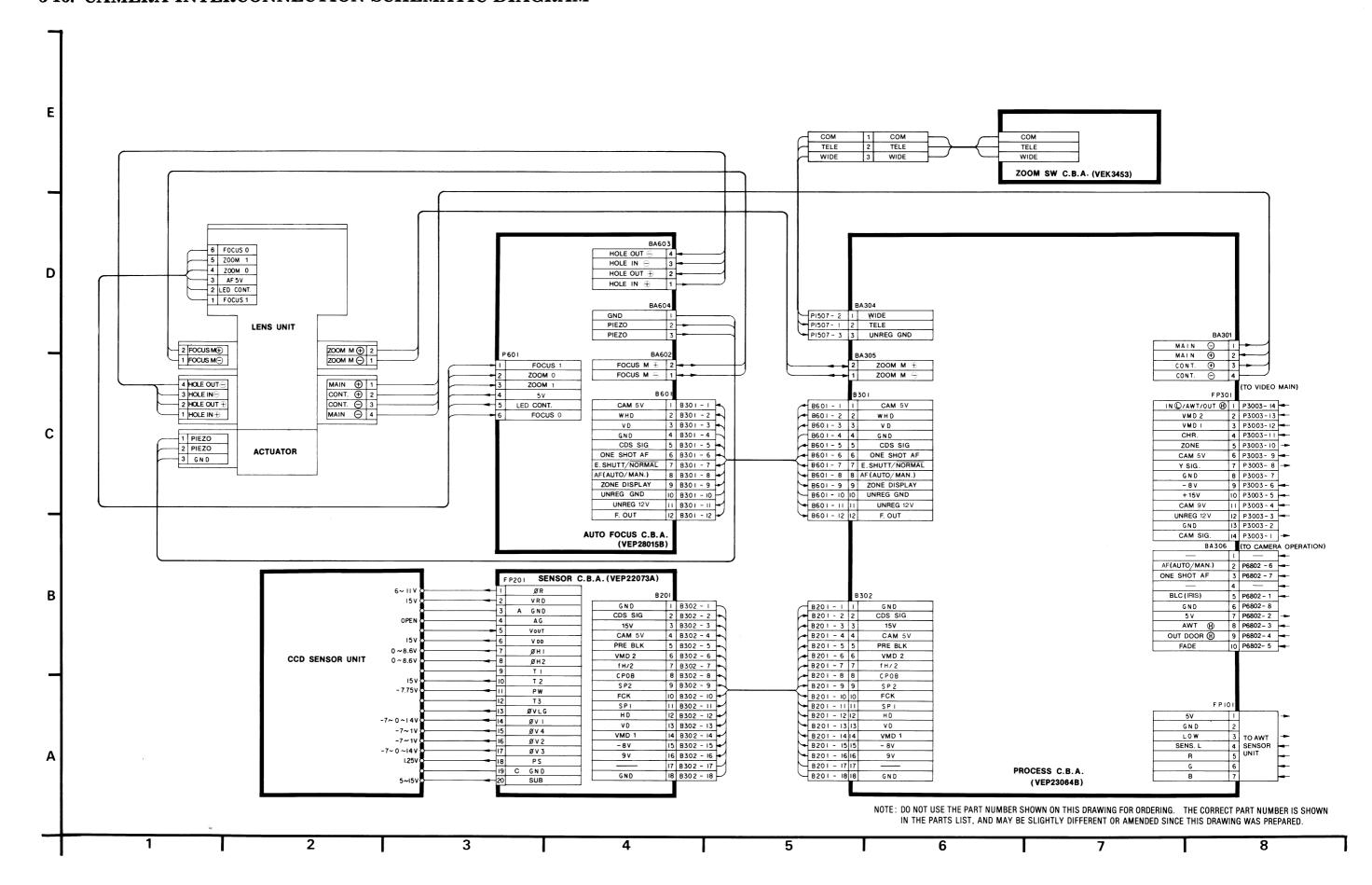
V701 ▲ CRT M01JVV47WB

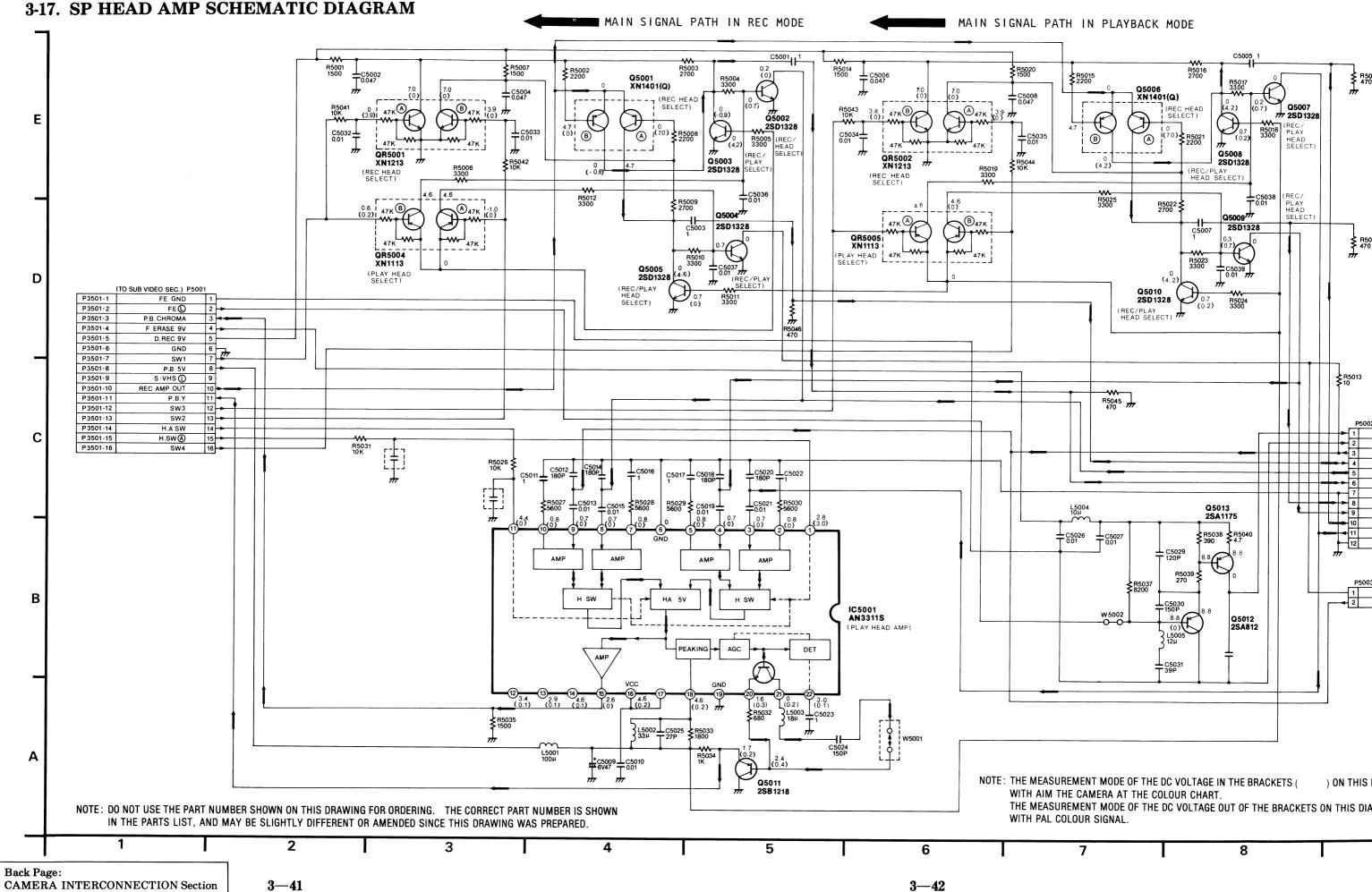
8



#### 3-15. VTR OPERATION C.B.A. (VEP06444B)

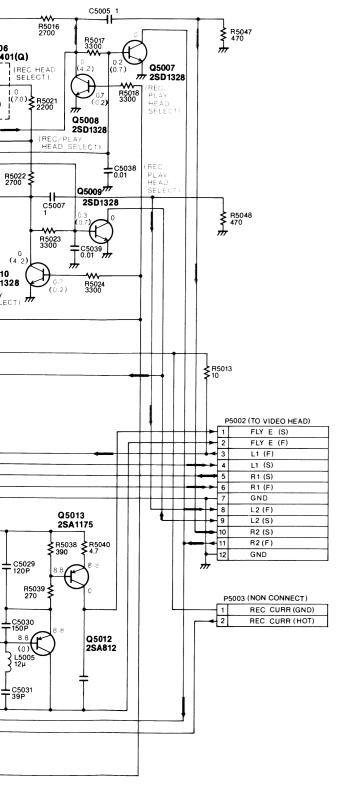






CAMERA INTERCONNECTION Section





E DC VOLTAGE IN THE BRACKETS ( ON THIS DIAGRAM IS RECORD MODE COLOUR CHART.

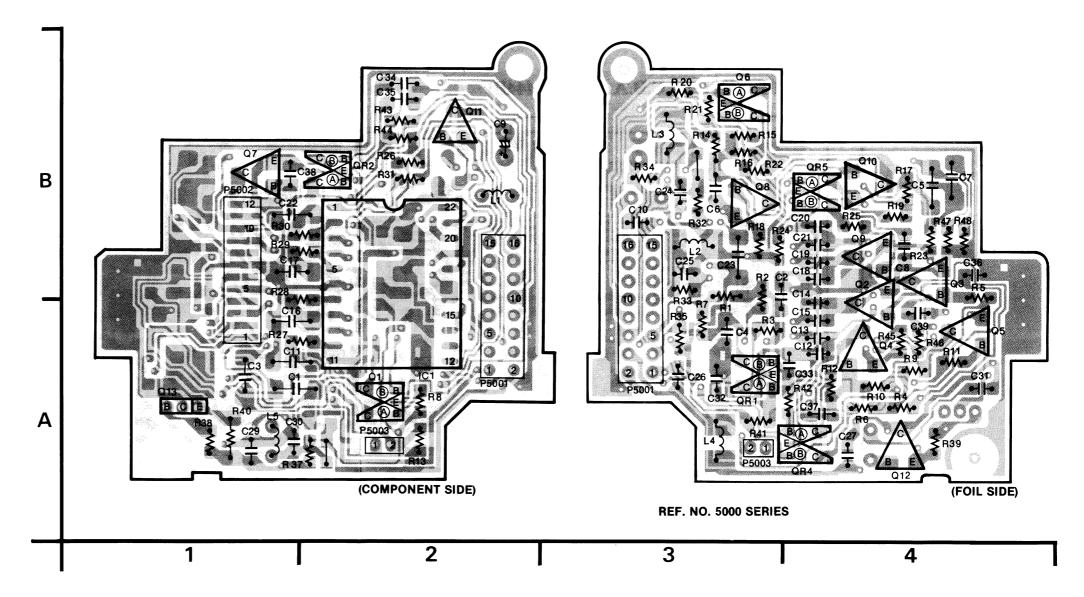
E DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE

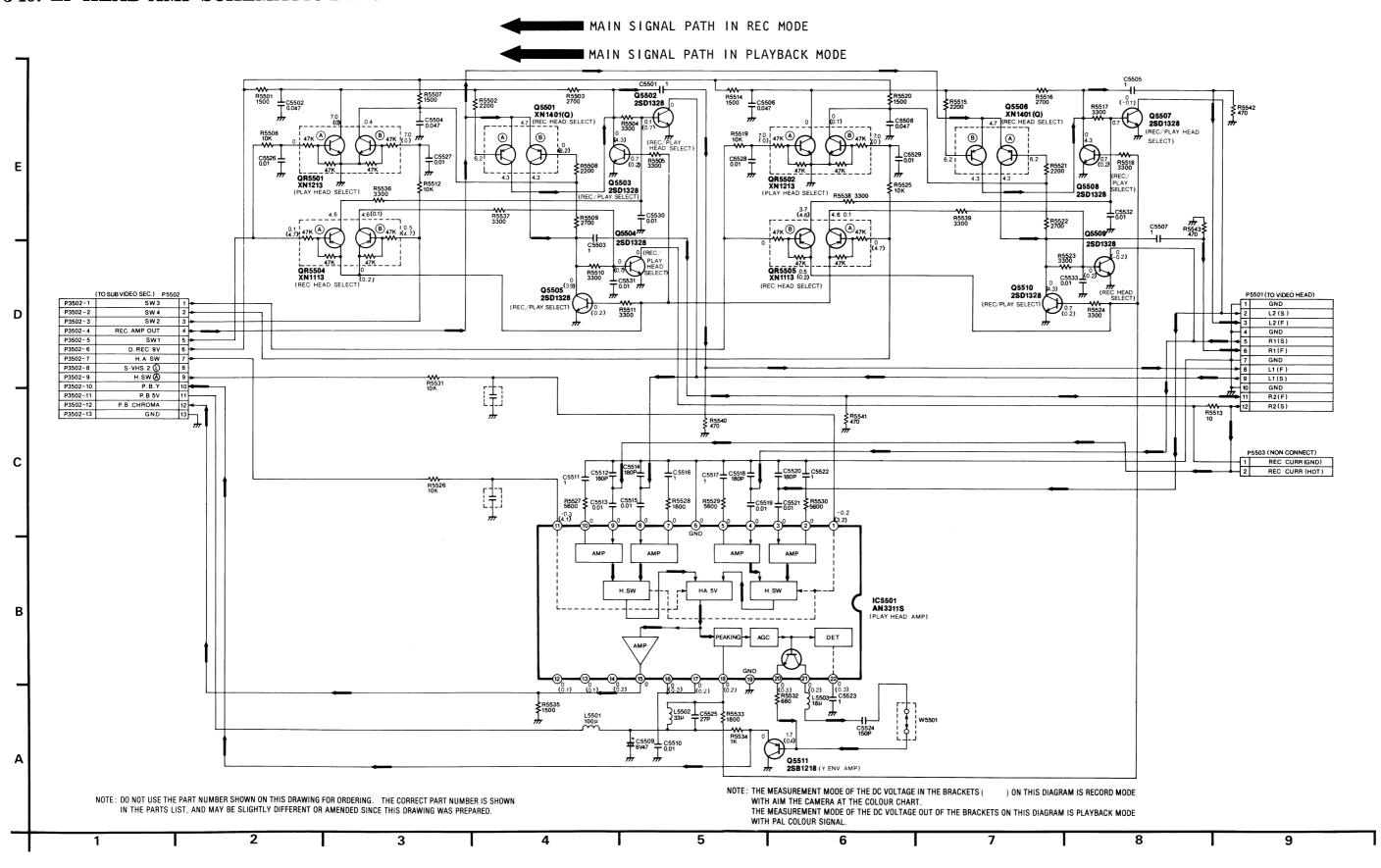
8

SP HEAD AME	C.B.A.	
Transistor		
Q5001	A-2	©
Q5002	B-4	(E)
Q5003	B-4	(Ē)
Q5004	A-4	(Ē)
Q5005	A-5	(Ē)
Q5006	B-3	(Ē)
Q5007	B-1	©
Q5008	B-3	(Ē)
Q5009	B-4	(Ē)
Q5010	B-4	(Ē)
Q5011	B-2	©
Q5012	A-4	(Ē)
Q5013	A-1	©
Transistor & R	esistor	
QR5001	A-3	(Ē)
QR5002	B-2	©
QR5004	A-4	(Ē)
QR5005	B-4	(Ē)
Integrated Circ	cuit	
IC5001	A-2	©
Connector		
P5001	A-2	©
P5001	A-3	(E)
P5002	B-1	©
P5003	A-2	©

ADDRESS INFORMATION

- © ··· COMPONENT SIDE ··· FOIL SIDE



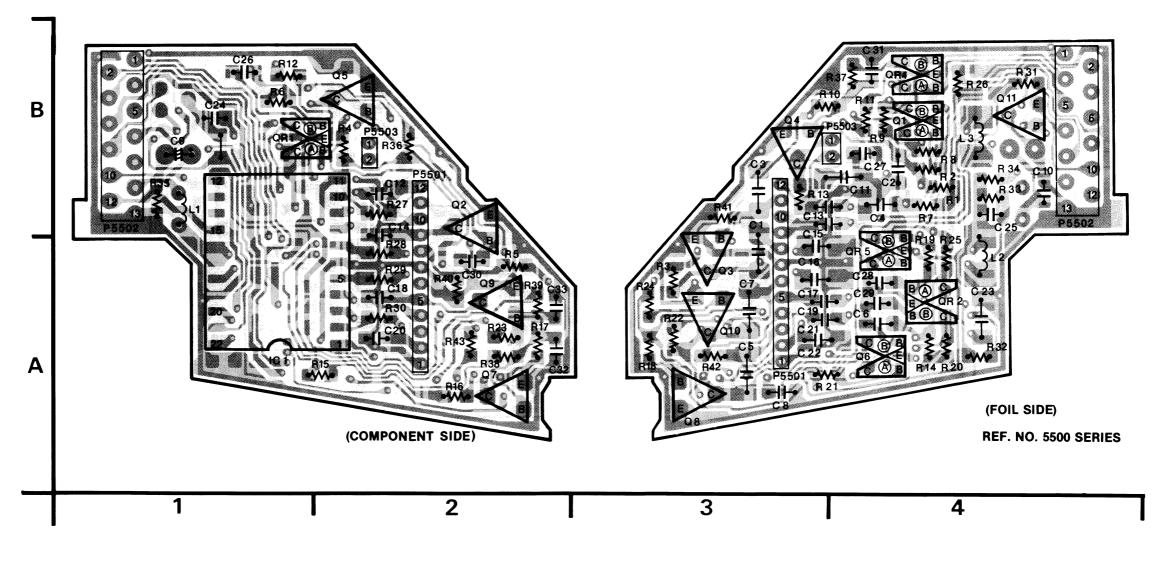


LP HEAD AM	P C.B.A.	
Transistor		
Q5501	B-4 ⑤	
Q5502	B-2 ©	
Q5503	A-3 €	
Q5504	B-3 ®	
Q5505	B-2 ©	
Q5506	A-4 🖲	
Q5507	A-2 ©	
Q5508	A-3 ®	
Q5509	A-2 ©	
Q5510	A-3 €	
Q5511	B-4 🕞	
Transistor &	Resistor	
QR5501	B-1 ©	
QR5502	A-4 ⑤	
QR5504	B-4 ①	
QR5505	A-4 ⑤	
Integrated Ci	rcuit	
IC5501	A-1 ©	
Connector		
P5501	B-2 ©	
P5502	B-1 ©	
P5503	B-2 ©	

- ADDRESS INFORMATION

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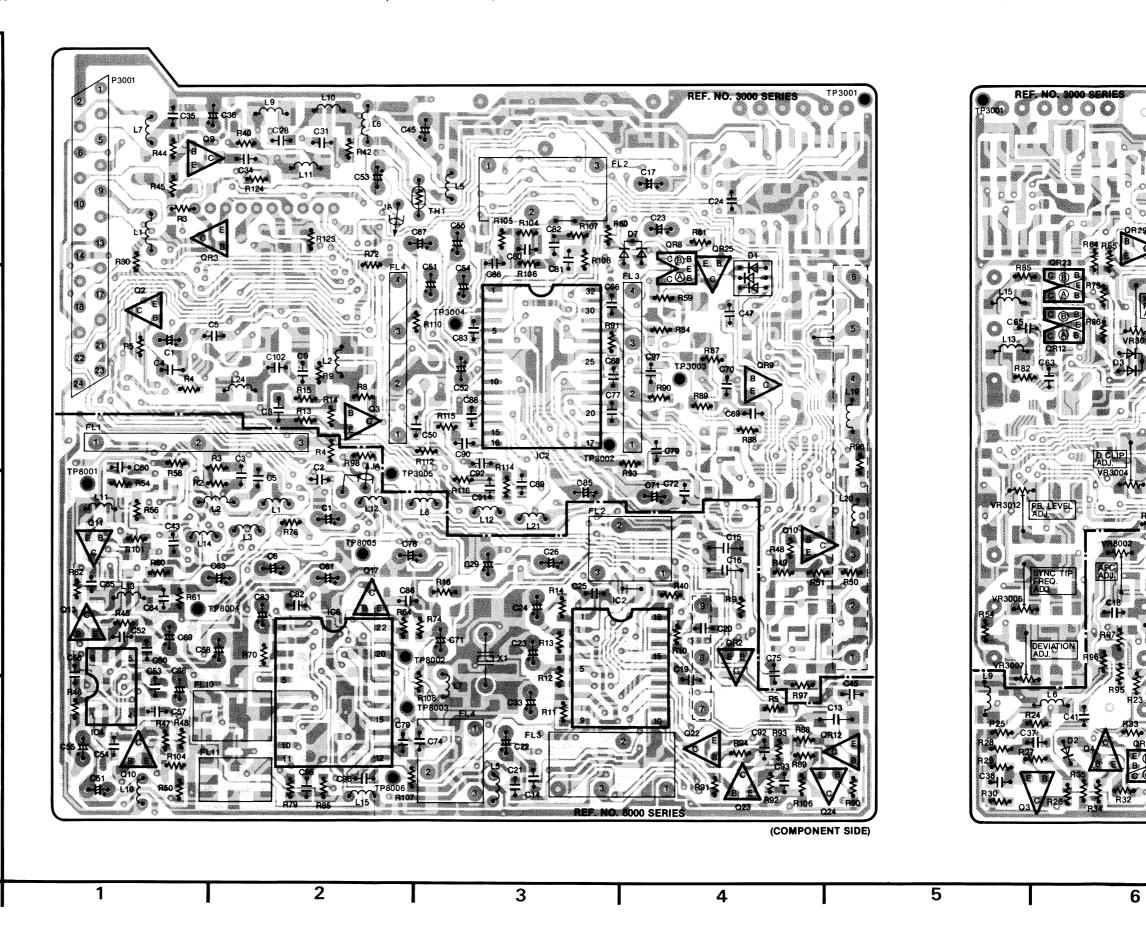
## 3-21. LUMINANCE/CHROMINANCE C.B.A. (VEP03471B)

	MINANCE & CI		Γ
Transistor		IC3003	D-4 ©
Q3001	C-8 ®	T IC8001	B-6 🕑
Q3001 Q3002	C-1 ©	IC8002	B-4 ©
	_	IC8003	B-9 🗈
Q3003	C-2 ©	IC8004	A-1 ©
Q3007	D-8 ©	IC8005	A-9 🗈
Q3008	D-8 ©	IC8006	B-2 ©
Q3009	D-1 ©		
Q3010	B-4 ©	Test Point	
Q3012	D-6 ©	TP3001	D-5 ©
Q8001	C-8 (Ē	TP3001	D-6 🕞
Q8002	B-7 🕦	TP3002	C-2 ©
Q8003	A-5 🗈	TP3002	C-7 (F)
Q8004	A-6 €	TP3003	C-4 ©
Q8005	A-7 🕑	TP3003	
Q8010	A-1 ©		
Q8011	B-1 ©	TP3004	C-3 ©
Q8012	B-1 ©	TP3004	C-8 ©
Q8013	B-1 ©	TP3005	B-3 ©
Q8014	A-9 🗈	TP3005	C-7 ©
Q8015	B-7 ©	TP8001	B-1 ©
Q8016	B-8 (F)	TP8001	B-9 🗈
Q8017	B-2 ©	TP8002	B-3 ©
Q8018	A-8 €	TP8002	B-8 🗈
Q8019	B-8 ©	TP8003	A-3 ©
Q8019 Q8020	_	TP8003	A-8 🗈
	_	TP8004	B-2 ©
Q8022	A-4 ©	TP8004	B-9 🗈
Q8023	A-4 ©	TP8005	B-2 ©
Q8024	A-5 ©	TP8005	B-9 ①
Transistor & F	Resistor	TP8006	A-2 ©
QR3001	C-8 🗈	TP8006	A-8 🗈
QR3002	D-4 ©	Adjustment	
QR3003	C-8 ®		
QR3005	C-8 ®	VR3001	C-8 (Ē
QR3006	C-8 ®	VR3002	D-5 🕞
QR3007	C-7 (F)	VR3003	C-6 (Ē
QR3008	D-4 ©	VR3004	B-6 ①
QR3009	D-4 ©	VR3006	B-5 🕑
QR3012		VR3007	B-5 🗈
	_	VR3009	C-7 🗊
QR3015	D-7 ①	VR3010	D-8 (Ē)
QR3022	D-6 ①	VR3012	B-5 🗈
QR3023	C-5 (f)	VR3013	C-6 (Ē)
QR3025	D-4 ©	VR8001	B-7 🕞
QR3027	C-8 (Ē	VR8002	B-6 (F)
QR3028	D-8 (Ē	VR8005	B-9 (F)
QR3029	D-6 🖺	VR8006	B-7 (Ē)
QR8001	C-8 🗈	VR8007	A-8 ®
QR8002	B-4 ©	71.0007	
QR8003	A-6 🗈	Connector	
QR8004	A-7 🕞	P3001	D-1 ©
QR8010	B-8 🗈	P3001	5.1 6
QR8011	B-8 🕞		
QR8012	A-5 ©		
Integrated Cir	cuit		
	D-7 🕞	1	
IC3001	D-7 🕟	1	l

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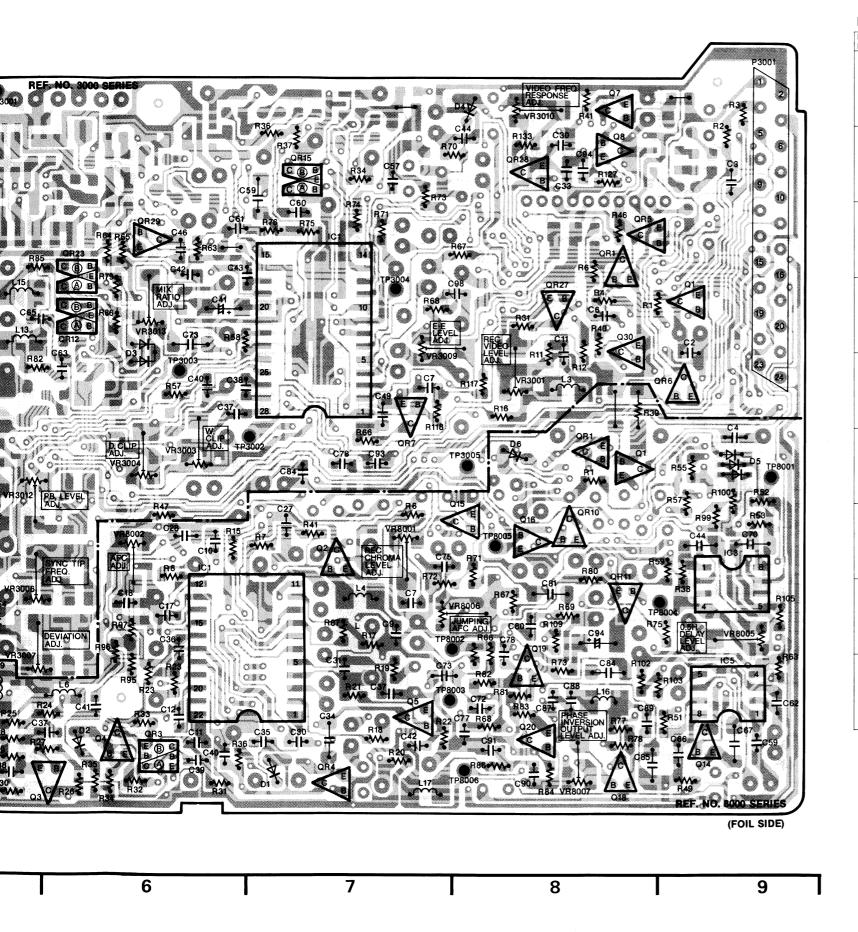


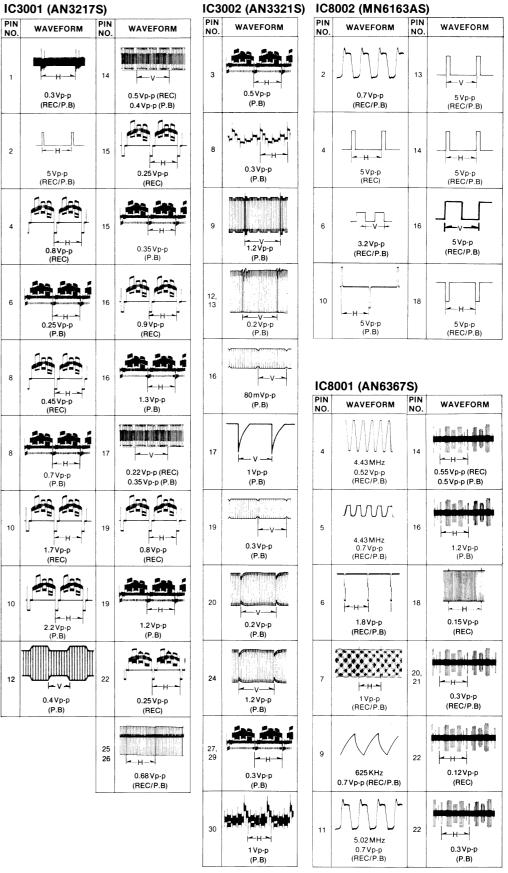
Back Page: LP HEAD AMP Section

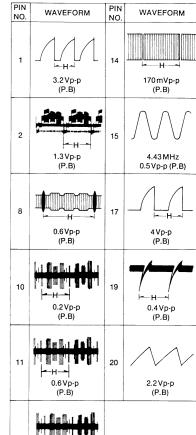
3—49

D

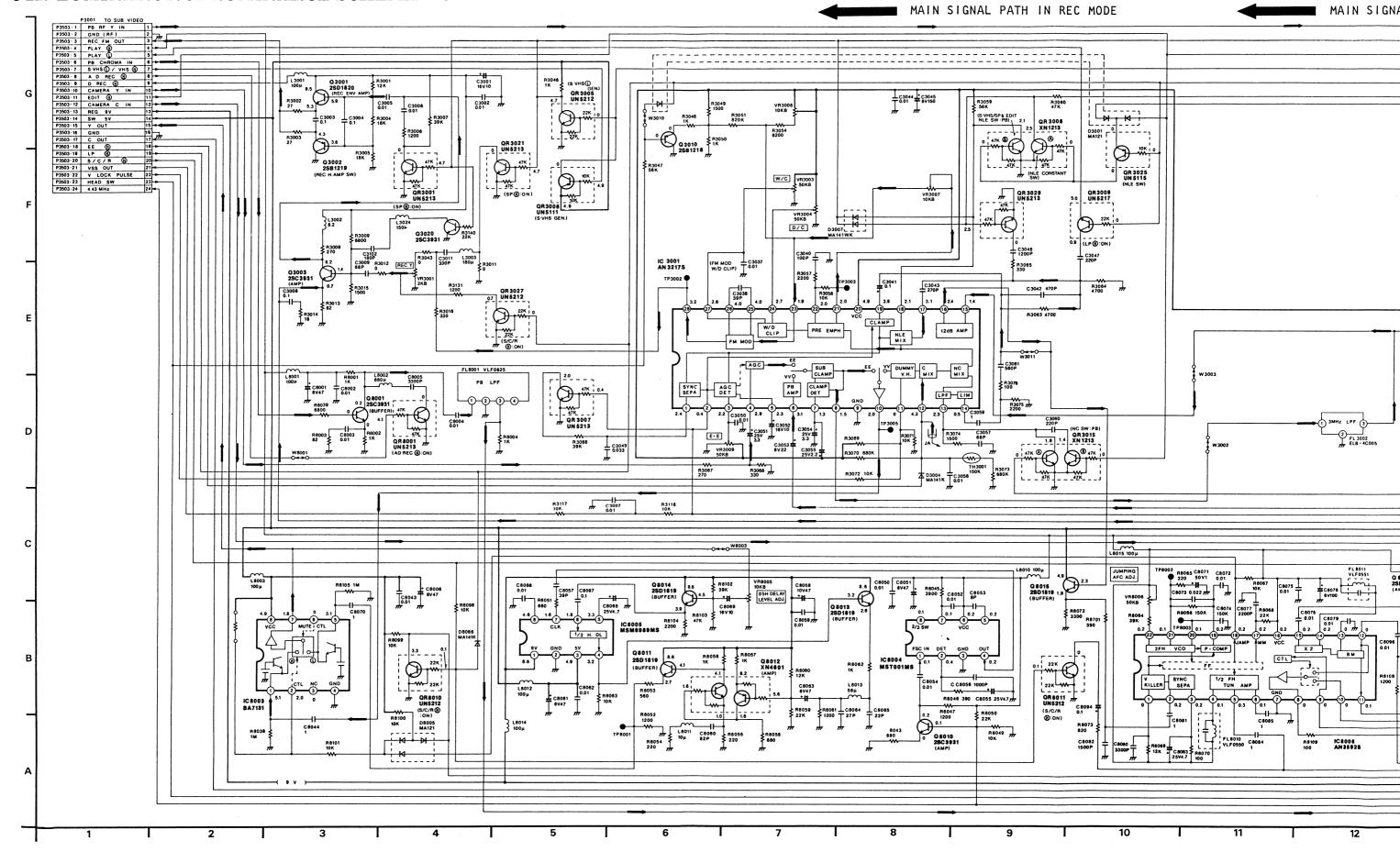
В

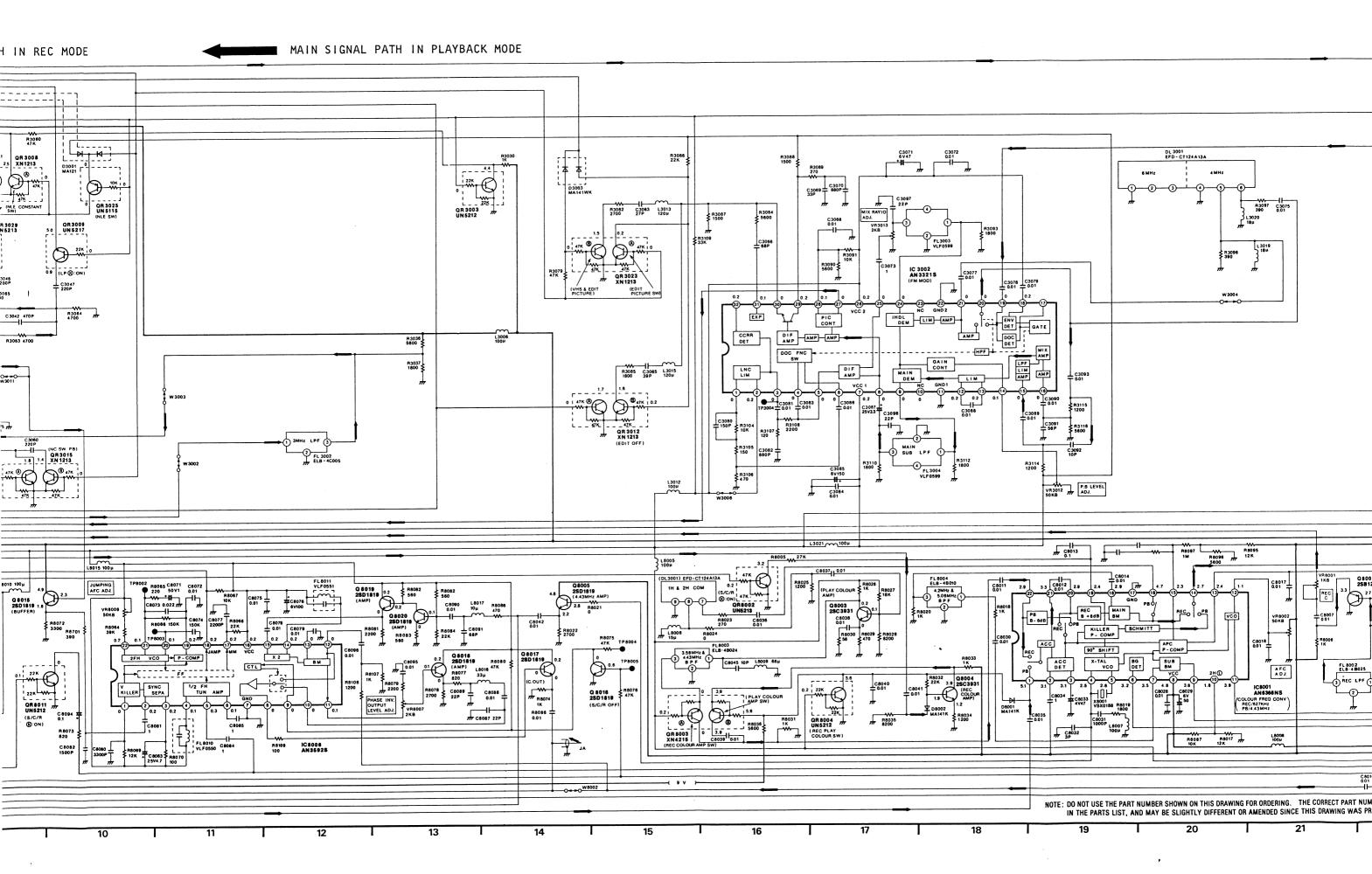




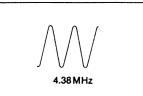


0.2 Vp-p

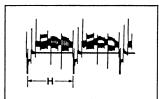




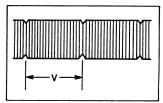




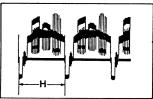
TP3002 REC 0.2V/0.1µsec. div. 0.6Vp-p



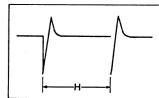
**TP3003 REC** 0.1 V/20 µsec. div. 0.5 Vp-p



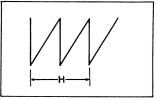
TP3005 PLAY 50 mV/5 msec. div. 100 Vp-p



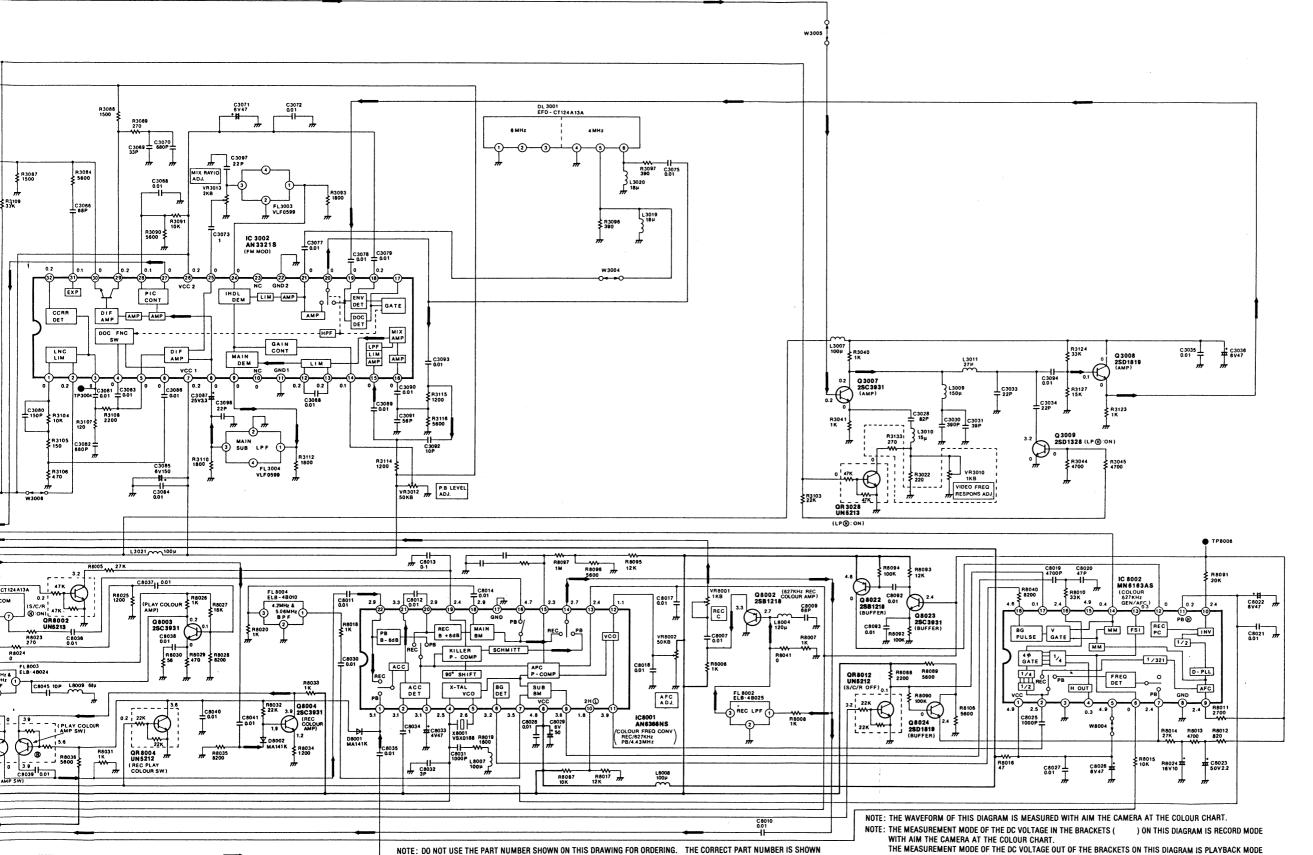
TP8001 PLAY 0.5 V/20 µsec. div. 1 Vp-p



TP8002 PLAY 50 mV/20 µsec. div. 160 Vp-p



TP8003 PLAY 0.5 V/20 µsec. div.



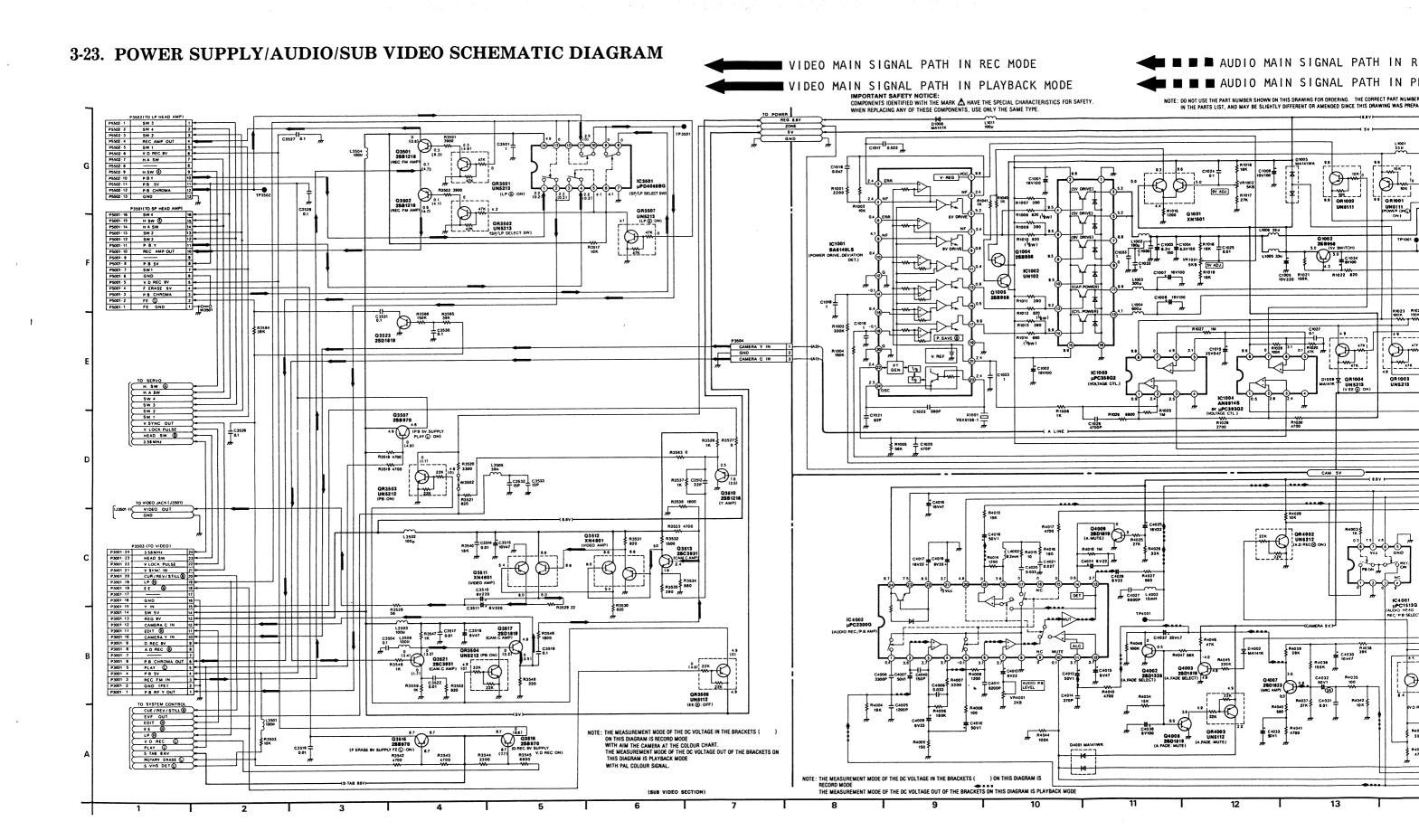
,Next Page:

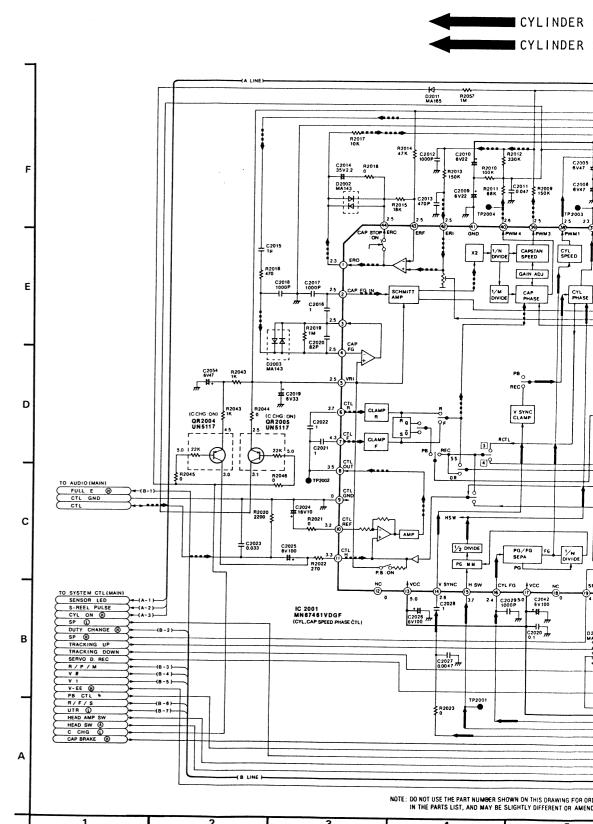
WITH PAL COLOUR SIGNAL.

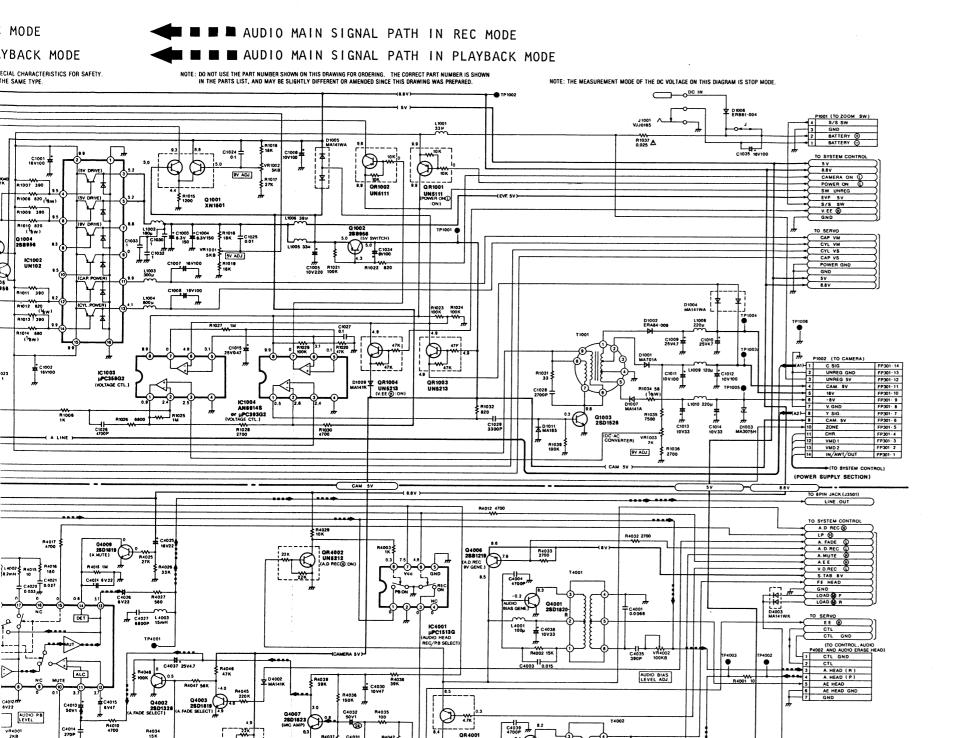
22

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NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.



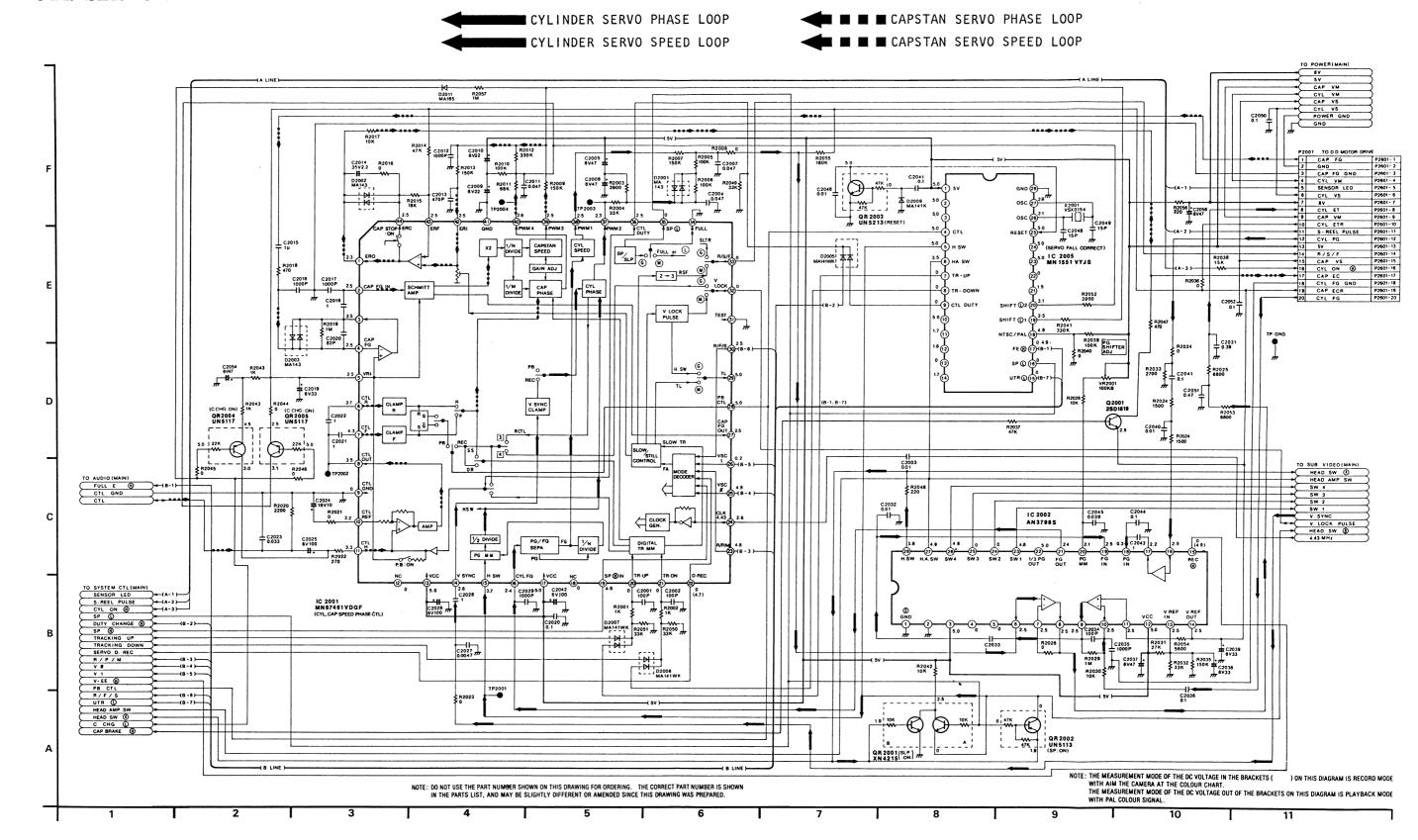




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#### 3-24. SERVO SCHEMATIC DIAGRAM

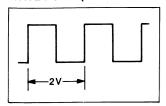
TROL AUDIO DIO ERASE HEAD)



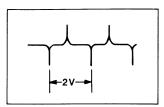
3-61

3-62

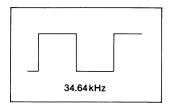
# SERVO CIRCUIT TP (Test Point) WAVE FORM (REF No. 2000 Series)



2V/10msec. div. 4Vp-p

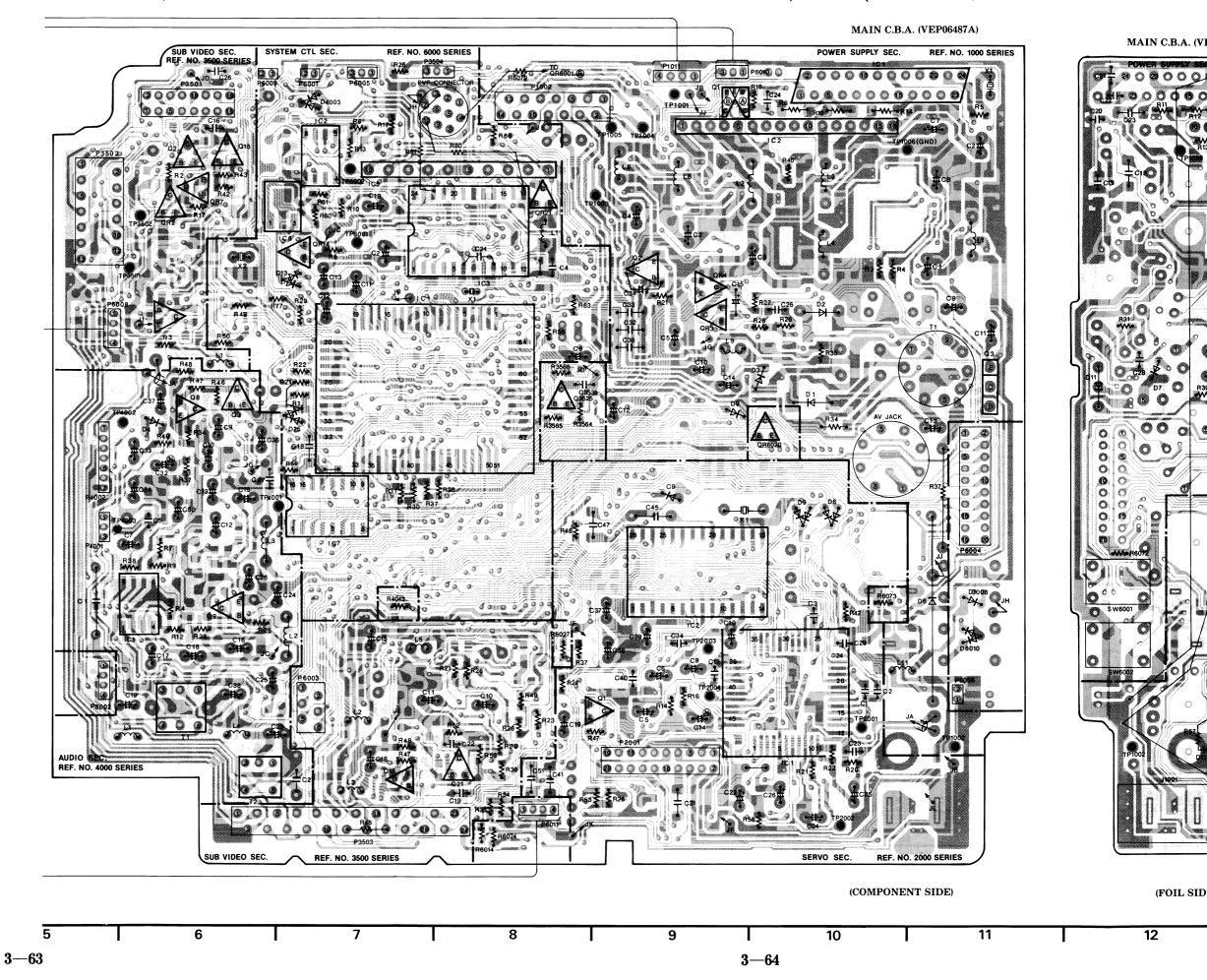


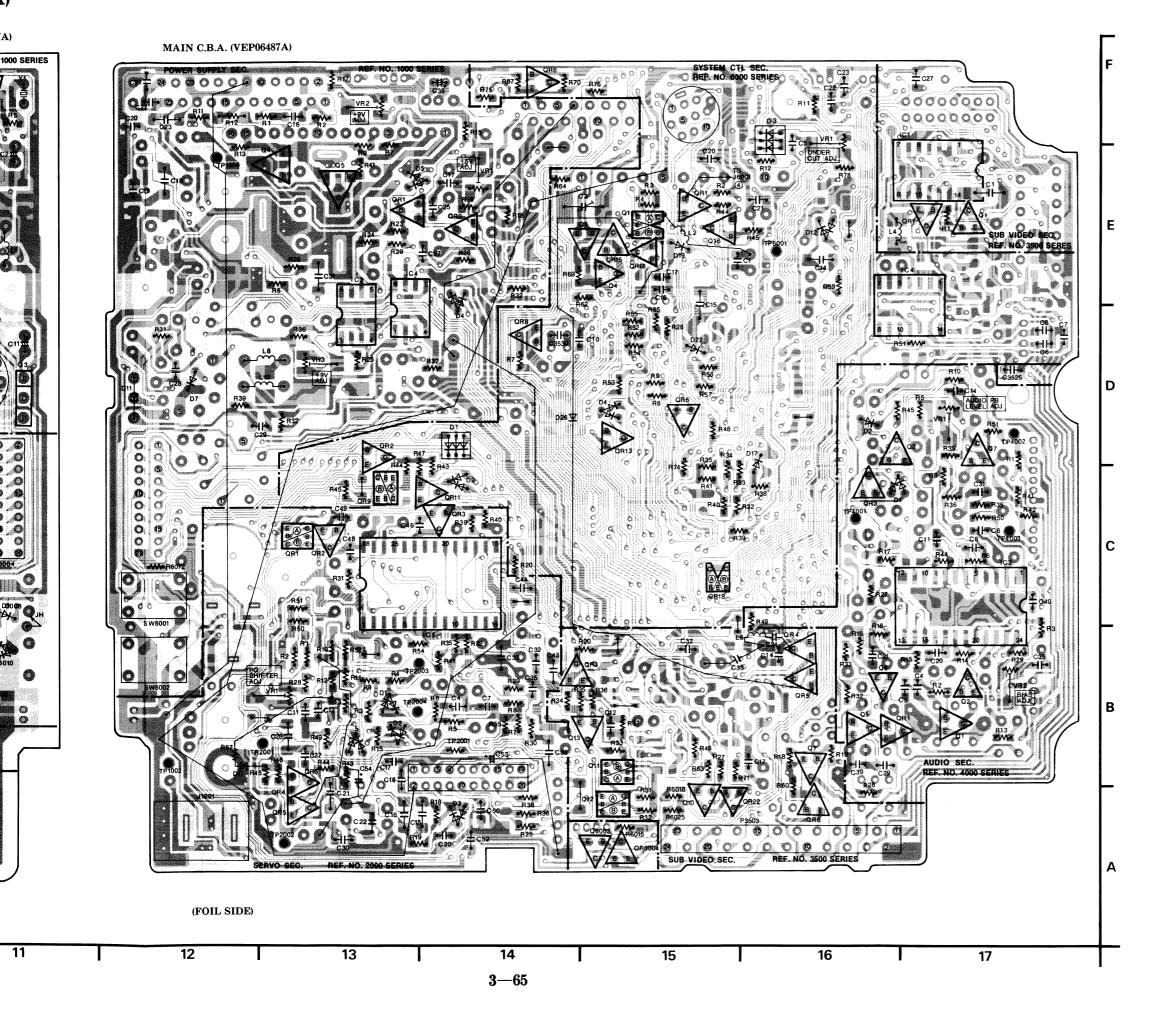
TP2002 PLAY 0.5 V/10 msec. div. 1.8 Vp-p



TP2003/TP2004 REC/PLAY 2V/10µsec. div. 5Vp-p

# 3-25. MAIN (POWER SUPPLY/AUDIO/SUB VIDEO/SERVO/SYSTEM CONTROL) C.B.A. (VEP06487A)





POWER SUPP	LY Section	on									
Transistor											
Q1001	F-9	©									
Q1002	E-9	©									
Q1003	D-11	©									
Transistor & Resistor											
QR1001	E-13	(Ē)									
QR1002	E-14	(Ē)									
QR1003	D-9	©									
QR1004	E-9	©									
QR1005	E-12	(Ē)									
Integrated Circ	cuit										
IC1001	F-10	©									
IC1002	F-10	©									
IC1003	E-13	©									
IC1004	E-13	Ð									
Test Point											
TP1001	F-9	©									
TP1002	E-11	©									
TP1003	E-9	©									
TP1004	F-9	©									
TP1005	F-9	©									
TP1006	E-10	©									
Adjustment											
VR1001	E-14	(Ē)									
VR1002	F-13	(Ē)									
VR1003	D-13	(Ē)									
Connector											
P1002	F-8	©									
P1011	F-9	©									

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AUDIO Section	n									
Transistor										
Q4001 Q4002 Q4003 Q4007 Q4009	B-17 ⑤ D-17 ⑥ D-6 ⑥ D-17 ⑥ C-6 ⑥									
Transistor & Resistor										
QR4001 QR4003 QR4005	B-16 (Ē) C-16 (Ē) B-16 (Ē)									
Integrated Circ	cuit									
IC4001 IC4002	B-6 © B-17 €									
Test Point										
TP4001 TP4001 TP4002 TP4002 TP4003 TP4003	C-7 © C-16 © D-6 © D-17 © C-6 © C-17 ©									
Adjustment										
VR4001 VR4002	D-17 ⑤ B-17 ⑥									
Connector										
P4001 P4002	C-5 © C-5 ©									

# ADDRESS INFORMATION © ··· COMPONENT SIDE ① ··· FOIL SIDE

SERVO Secti	on
Transistor &	Resistor
QR2001	C-13 <b>(F)</b>
QR2002	C-13 🕞
QR2003	C-14 🕑
QR2004	A-13 🕞
QR2005	B-13 €
Integrated Ci	rcuit
IC2001	B-10 ©
IC2002	B-9 ©
IC2005	C-14 🖺
Test Point	
TP2001	B-10 ©
TP2001	B-13 🕞
TP2002	B-10 ©
TP2002	A-13 🕞
TP2003	B-9 ©
TP2003	B-13 🕞
TP2004	B-13 🕞
TP2004	B-9 ©
Adjustment	
VR2001	• B-13 <b>(F</b> )
Connector	
P2001	B-9 ©
P2001	B-14 🕞

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SUB VIDEO Section

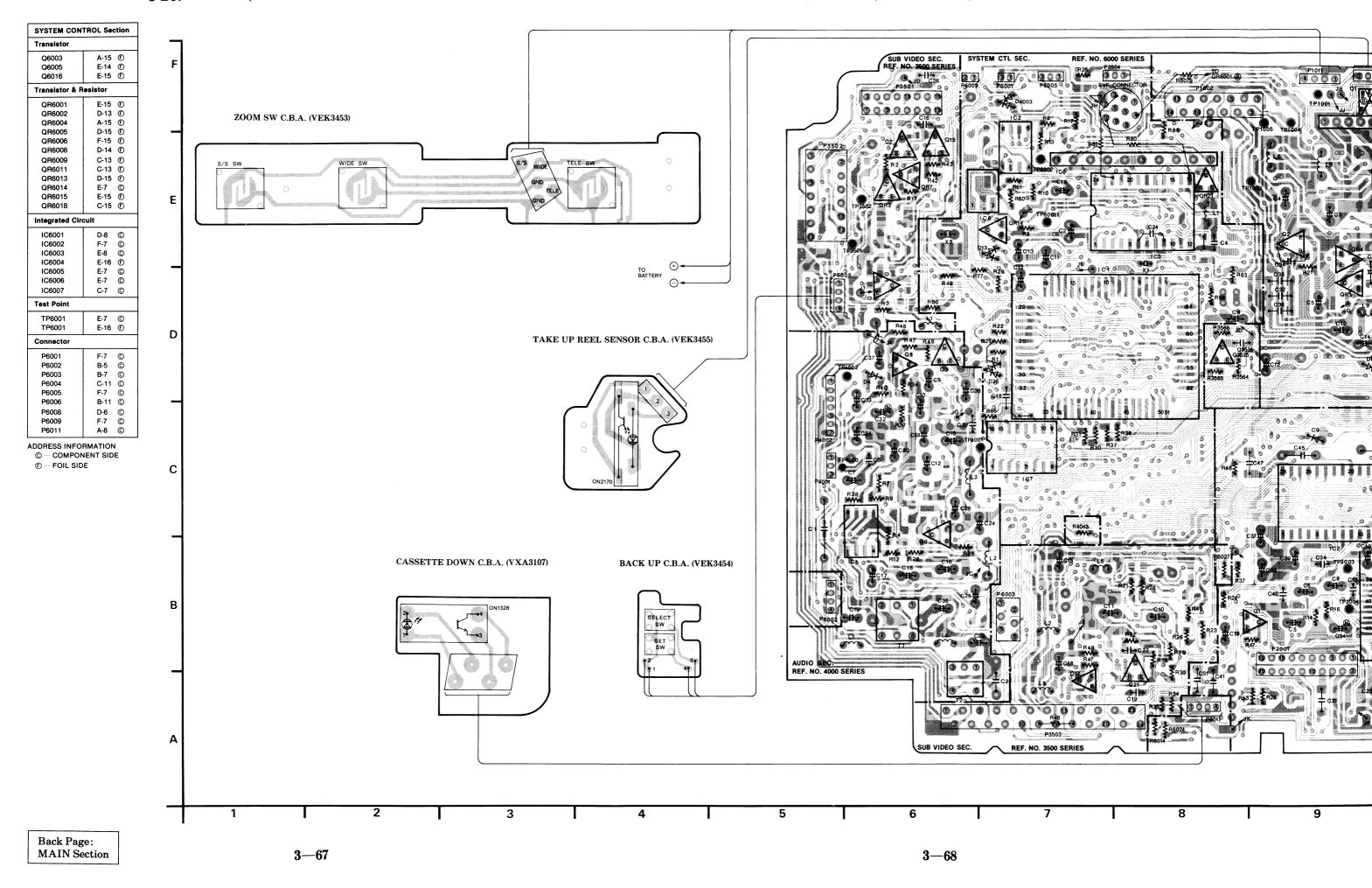
Transistor	
Q3501	E-17 🕞
Q3502	E-6 ©
Q3507	B-16 🕞
Q3510	A-15 🕞
Q3511	B-15 🕞
Q3512	A-15 🕞
Q3513	B-14 🕑
Q3515	E-6 ©
Transistor & P	lesistor
QR3501	E-17 (f)
QR3502	E-6 ©
QR3503	B-14 🕞
QR3504	B-16 🕞
QR3505	B-16 🕞
QR3506	A-16 🕑
QR3507	E-6 ©
QR3517	A-7 ©
QR3521	A-8 ©
Integrated Circ	cuit
IC3501	E-17 🖺
Test Point	
TP3501	E-6 ©
TP3501	E-17 🛈
Connector	
P3501	F-6 ©
P3502	E-6 ©
P3503	A-7 ©
P3504	F-8 ©

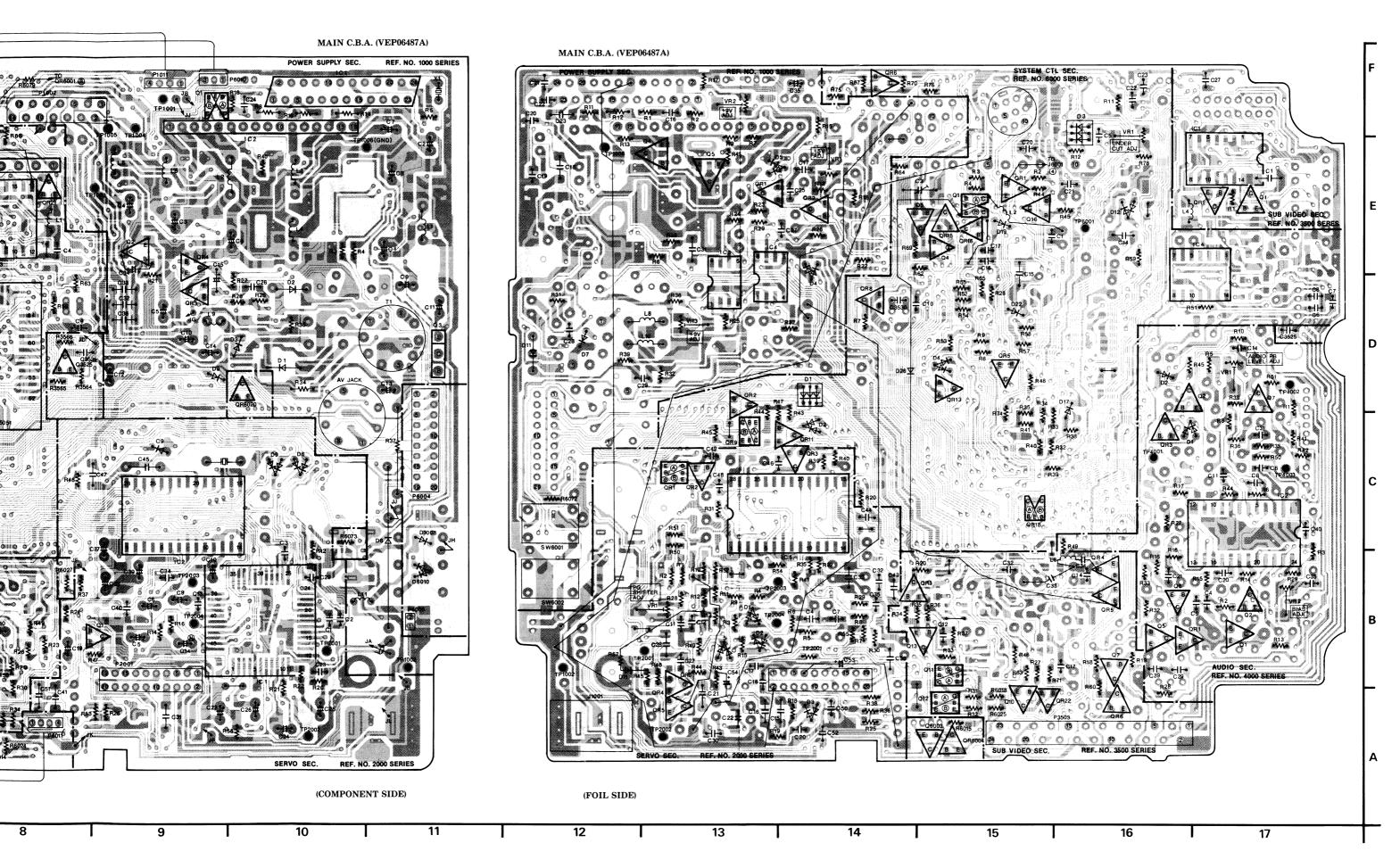
ADDRESS INFORMATION

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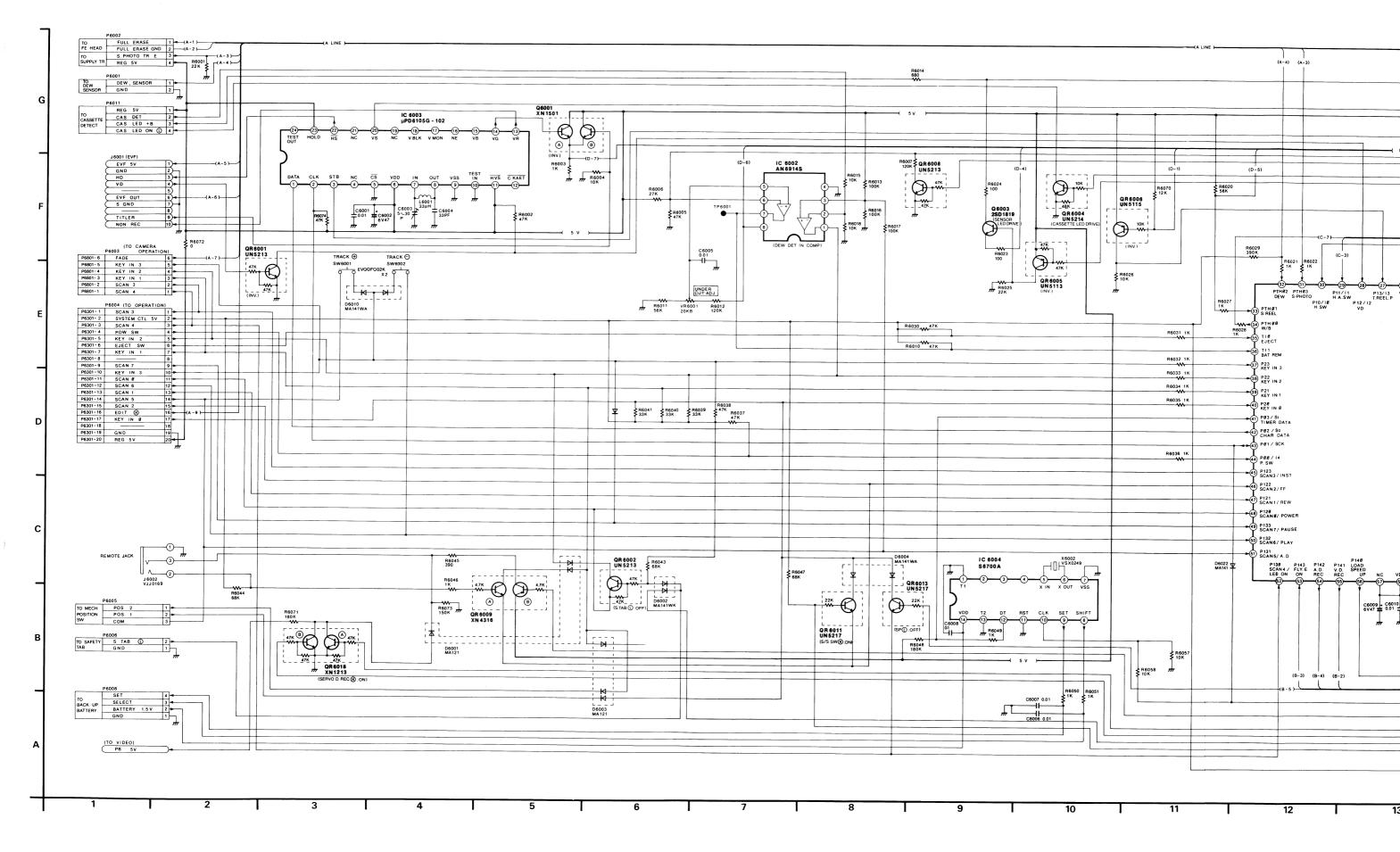
•• ··· FOIL SIDE

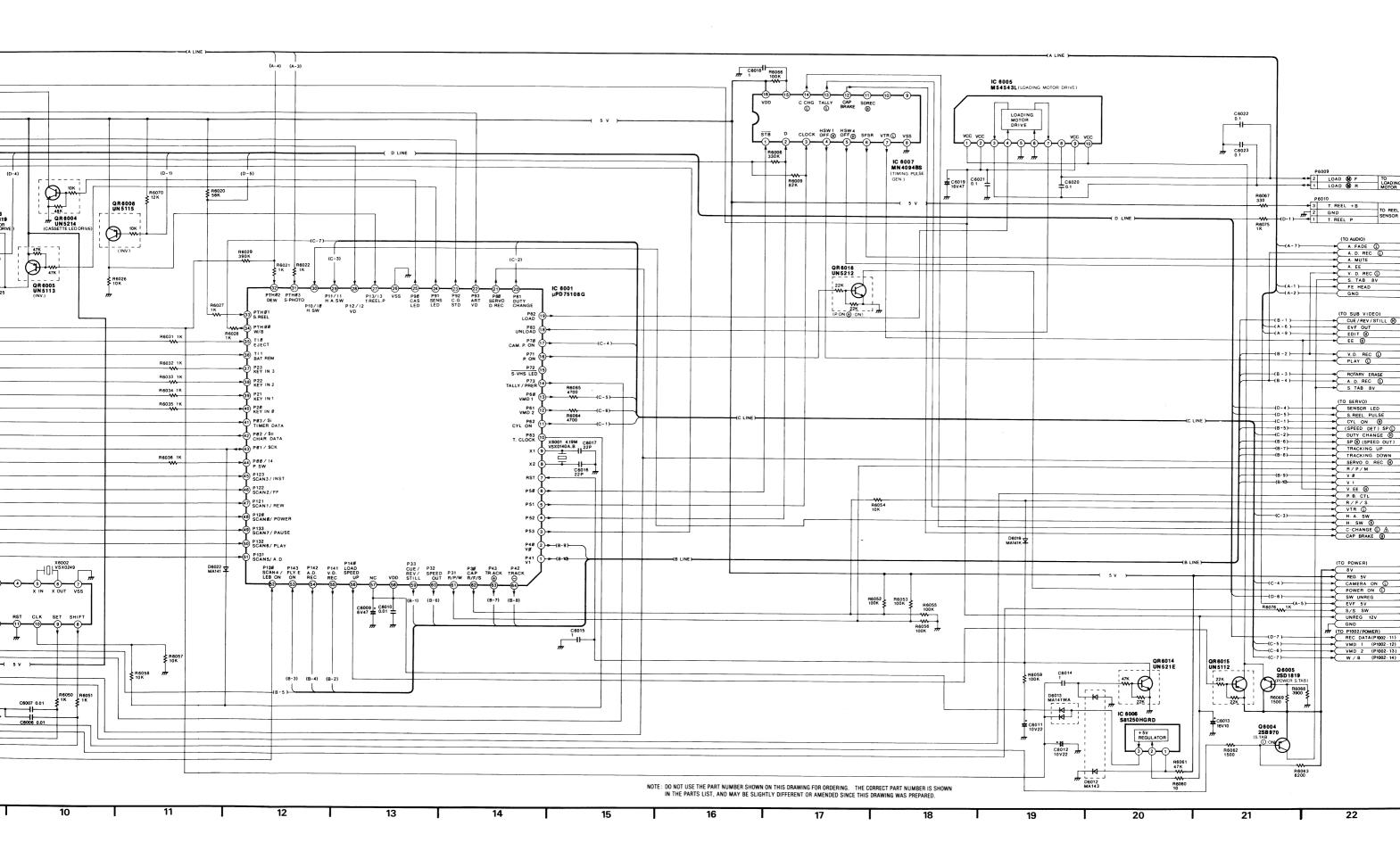
# 3-26. MAIN (SYSTEM CONTROL/POWER SUPPLY/AUDIO/SUB VIDEO/SERVO) C.B.A. (VEP06487A)





#### 3-27. SYSTEM CONTROL SCHEMATIC DIAGRAM



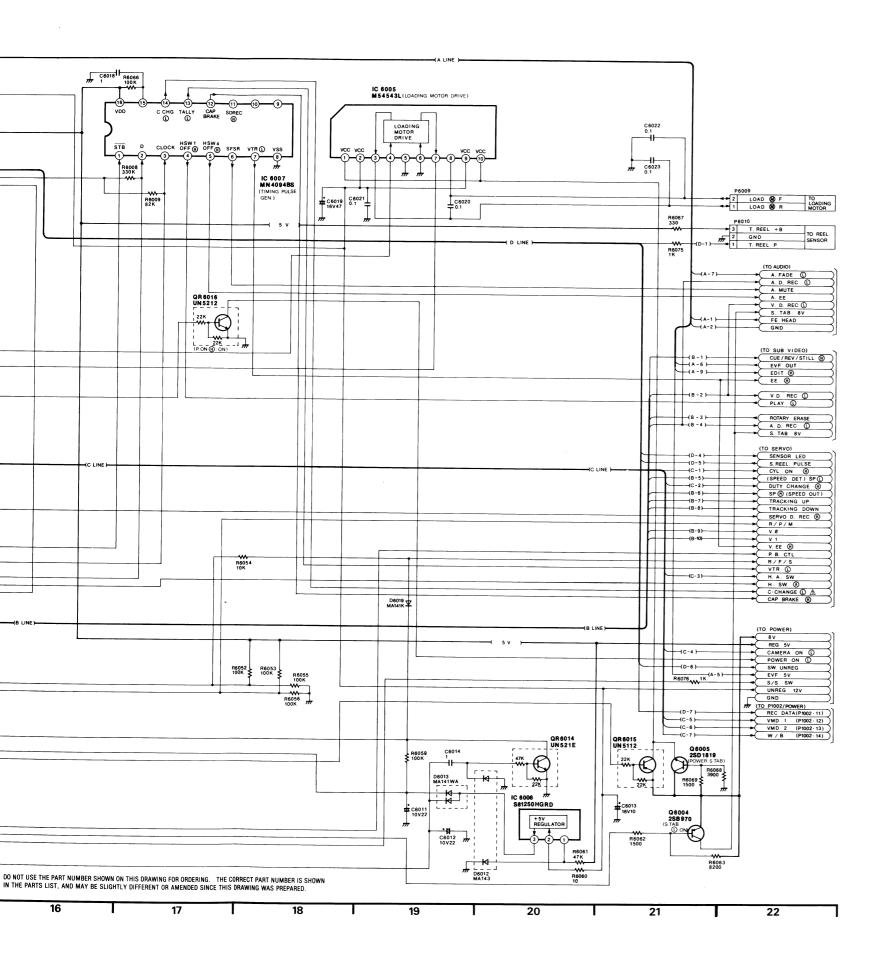


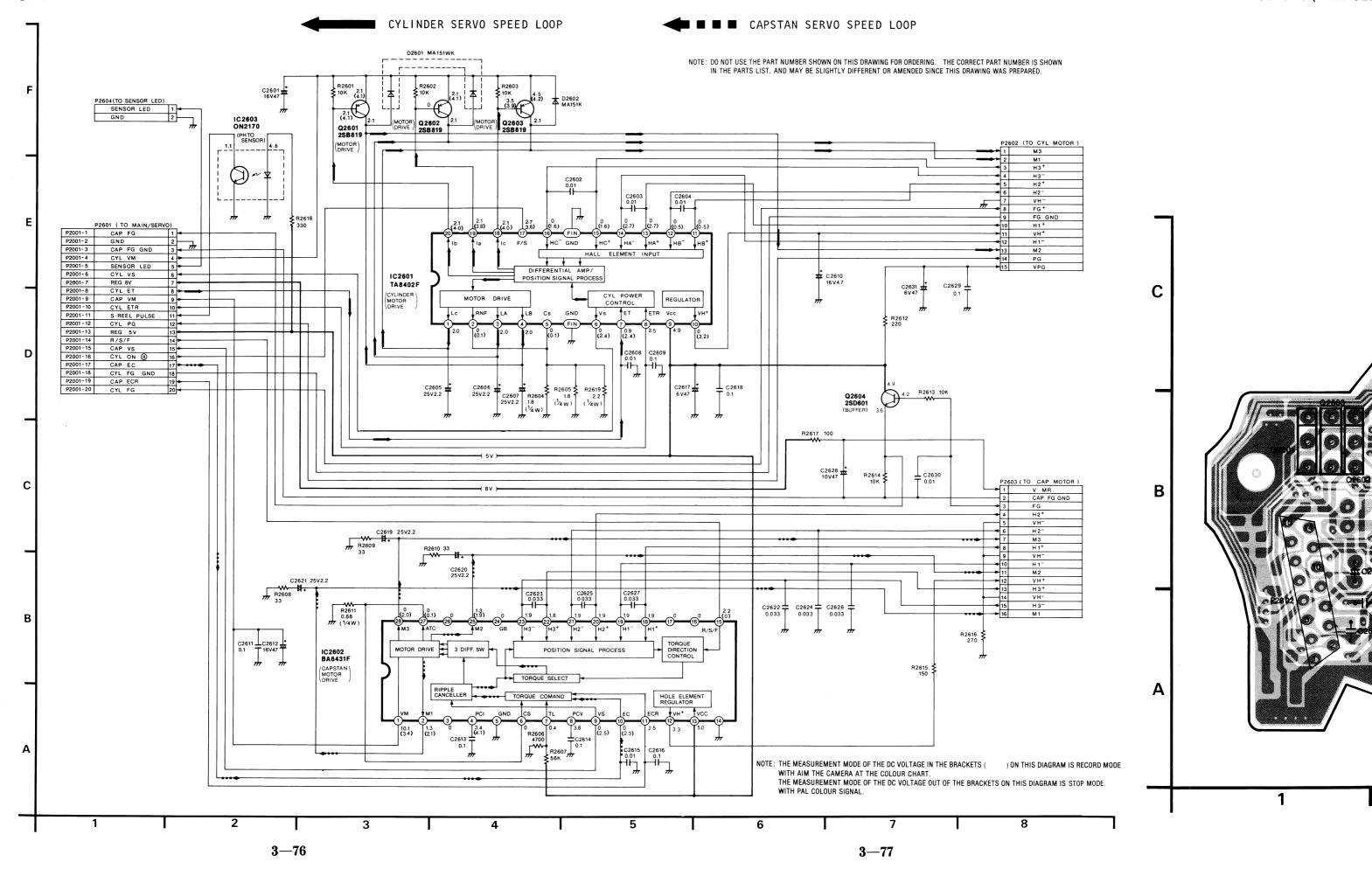
#### SYSTEM CONTROL Section ICs VOLTAGE CHART (SP MODE)

51511										710			•••			<i></i>				
REF. NO.										ICE	001									
MODE \	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	4.9	4.9	4.9	4.9	0	4.9	2.6	-	4.8	0	0	0	4.9	4.9	4.9	0.1	0	0	0
PLAY	0	4.9	4.9	4.9	4.9	0	4.9	2.6	0	4.8	0	0	0	4.9	0	4.9	4.9	0	0	0
REC	0.2	4.9	4.9	4.9	4.9	0.2	4.9	2.6	<u> </u>	4.8	4.9	0.2	0.2	0	4.9	4.9	0.3	0.1	0.1	0.1
REF. NO.										ICE	001									
MODE \	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	4.9	0	4.9	3.9	0	0	0.3	2.4	1.8	0	0	4.7	0.1	4.8	4.8	4.8	4.8	4.5	0.7
PLAY	0	0	0	4.9	0	0	<u> </u>	0.3	0	1.8	0	0	2.4	0	4.8	4.8	4.8	4.8	1.0	4.4
REC	4.9	4.9	0.1	4.9	0	0	2.4	0.3	2.4	1.8	0	0	2.4	0.1	4.8	4.8	4.8	4.8	1.1	4.4
REF. NO.					-					T	001			,						
MODE \	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	4.4	2.5	4.6	4.8	5.5	5.6	4.9	0.3	5.3	5.0	4.1	0.3	8.8	7.8	8.8	8.8	4.9	0	0	0
PLAY	4.4	2.5	4.6	4.8	4.5	4.3	3.3	0.3	4.5	0.4	4.1	0.3	8.8	7.8	8.8	8.8	4.9	4.9	0	4.9
REC	4.4	2.5	4.6	4.8	3.8	4.7	3.8	0	4.8	0.5	4.1	0.4	0	0	0.2	0	0	0	0	0
REF. NO.	<u> </u>				IC6	001				Υ						002				, .
MODE \	61	62	63	64		ļ	ļ	ļ			1	2	3	4	5	6	7	8		ļ
STOP	2.5	0	0	0				ļ		L	4.8	0	3.0	0	3.5	3.1	4.8	4.8		
PLAY	2.5	2.4	0	0	Ļ	ļ				ļ	4.8	0	3.0	0	3.5	3.1	4.8	9.7		
REC	0	0	0.2	0				L			4.8	0	3.0	0	0	3.1	4.8	9.7		L
REF. NO.						·				IC6	003									,
MODE \	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	2.5	4.6	0.7	0	0	5.0	2.9	2.9	0	0	0	2.1	0	0	0	0	0	0	0	4.9
PLAY	2.5	4.6	0	0	. 0	4.9	2.9	2.9	0	0	0	2.3	0	0	0	0	0	0	0	4.9
REC	2.5	4.6	0.1	0	0	4.9	2.9	2.9	0	0	0	2.1	0	0	0	0	0	0	0	4.9
REF. NO.	L									IC6	003									
MODE	21	22	23	24					-			ļ	ļ							<u> </u>
STOP	0	4.1	4.9	1.1					<u> </u>											
PLAY	0	4.1	4.9	1.1	_				ļ											
REC	0	4.1	4.9	0.4			L			L		l	l	l			l			
REF. NO.	<u> </u>						-		-	IC6										
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
STOP	0	1.3	0	0	0.7	0.7	0	1.5	1.5	2.4	0	4.5	0	1.5						-
PLAY REC	0	1.4	0	0	0.7	0.7	0	1.5	1.5	2.4	0	4.5	0	1.5						
k	<del>- ۱</del>	1.5			0.7	0.7	0	1.5	1.5	2.4	0	4.5	0	1.5						
MODE	1	2	3	_	-	_	7		_	IC6	005						1			
STOP	8.1	9.9	0	0	5 0	6	0	8	9	10										-
PLAY	7.9	9.9	0	0	0	0	0	0	9.9 9.9	8.1 7.9		-								
REC	7.9	9.9	0.1	0.1	0	0	0.1	0	9.9	7.9										<u> </u>
REF. NO.	1.5	3.5	0.1	0.1		U	0.1		9.9		200									L
MODE	1	2	3							IC6	006									
STOP	0.5	9.7	5.6	-																$\vdash$
PLAY	0.5	9.7	5.6		$\vdash$			-												<del>                                     </del>
REC	0.5	9.7	5.6	<b>-</b>		-			-	-										<del>                                     </del>
REF. NO.	0.0	5.1	5.0					L		IC6	007									
MODE	1	2	3	4	5	6	7	8	0			10	12	14	15	16		- 1		
STOP	0	4.9	4.9	4.9	4.9	0	4.8	0	9	10 4.4	11 0	12 0	13 4.9	14 0	15 4.9	16 4.9				
PLAY	0	4.9	4.9	0.2	0	0	0	0	0	4.4	0	0	4.9	4.9	0	4.9				<del></del>
REC	0.2	4.9	4.9	4.9	4.9	0	4.8	0	0	4.4	0	0	0	4.9	4.9	4.9				
NEU	0.2	4.5	4.9	4.9	4.9	U	4.0	U	U	4.4	U	U	U	4.9	4.9	4.9				

#### SYSTEM CONTROL Section TRs VOLTAGE CHART (SP MODE)

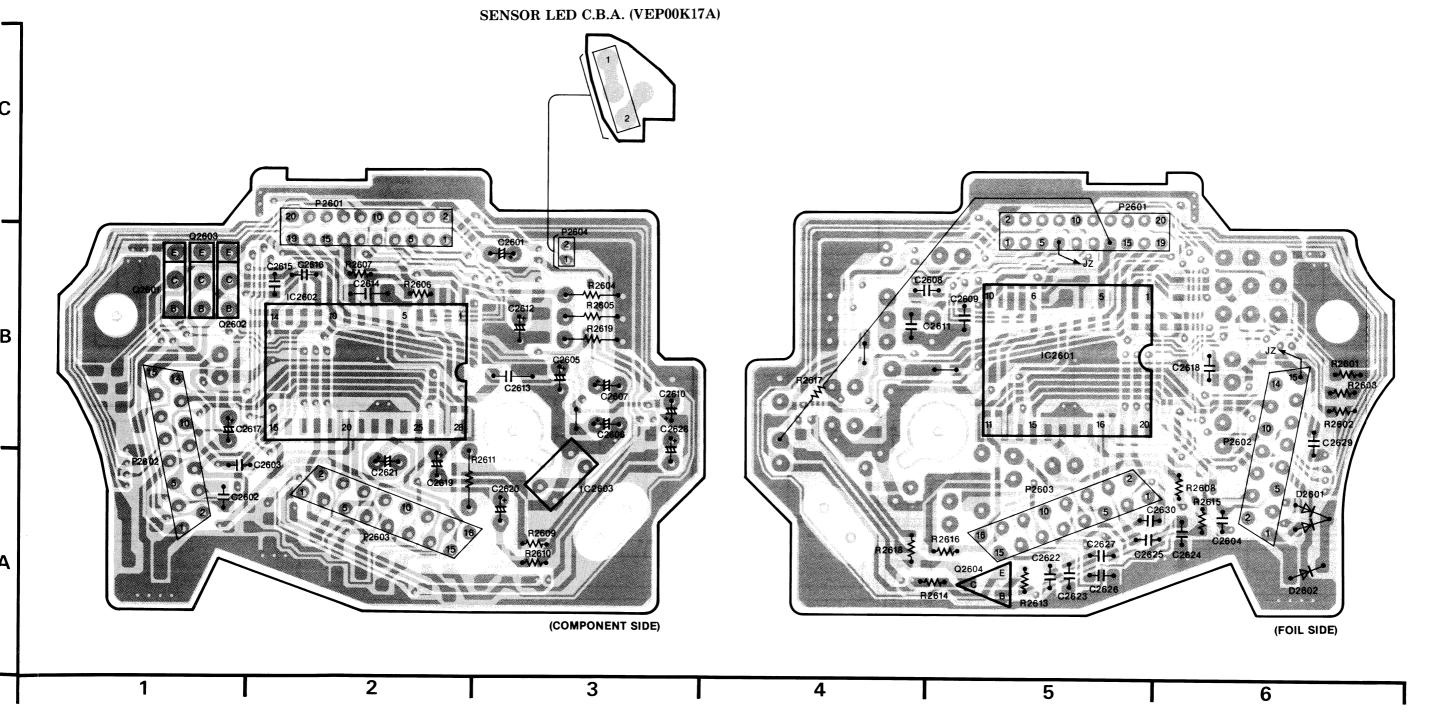
REF. NO.		<b>26001</b> (	0		26001 (E	3)		Q6003			Q6004			Q6005				
MODE	E	С	В	E	С	В	E	С	В	E	С	В	Е	С	В			
STOP	2.1	5.0	0	2.1	5.0	0	0.1	2.7	0	8.8	8.8	8.2	8.8	8.1	8.8			
PLAY	0	4.9	0	0	4.9	0	0.1	2.4	0	8.8	8.8	8.1	8.0	8.8	8.7			
REC	2.1	5.0	0	2.1	5.0	0	0.1	2.7	0	8.7	8.6	8.0	8.0	8.7	8.6			
REF. NO.		QR6001	l		QR6002	!		QR6004	ı		QR6005	j .		QR6006	3		QR6008	3
MODE	Ε	С	В	E	С	В	E	С	В	E	С	В	Е	С	В	Е	С	В
STOP	0	0.3	3.9	0.3	5.5	0.4	0	9.7	0	5.0	0	4.9	5.0	4.9	3.9	0	0	4.9
PLAY	0	0.3	3.8	0.3	5.4	0.4	0	9.7	0	4.9	0	4.9	4.9	2.3	4.4	0	0	4.9
REC	0	0.3	3.8	0.4	5.7	0.4	0	9.7	0	5.0	0	4.9	5.0	2.3	4.0	0	0	4.9
REF. NO.	Q	R6009	A	Q	R6009	B_		QR6011		QR6012		:	QR6013			QR6014		
MODE \	E	С	В	E	С	В	E	С	В	E	С	В	Е	С	В	E	С	В
STOP	5.0	0	4.9	5.2	0	4.8	5.4	5.4	4.8	4.7	5.5	-0.1	0.3	5.6	0	0	4.9	0
PLAY	4.9	0.8	4.9	4.9	4.9	4.8	5.1	5.2	4.8	0.4	4.3	-1.3	0.3	5.2	0.1	0	4.9	0
REC	4.9	4.9	4.0	5.3	5.3	4.8	5.3	5.4	4.8	0.5	5.8	-2.8	0.4	5.0	0	0	4.9	0
REF. NO.		QR6015	i		QR6016	1	a	R6018	A	Q	R6018	®						
MODE	E	С	В	E	С	В	E	С	В	E	С	В						
STOP	0	8.1	8.8	0	0	4.9	0	0	0	0	0	4.9						
PLAY	8.8	8.0	8.7	0	0	4.9	0	1.0	0	0	1.0	2.9						
REC	8.7	8.0	8.7	0	0	4.9	0	0	4.9	0	0	2.9						





DRIVE C.B.A.								
Transistor								
Q2601	B-1	©						
Q2602	B-1	©						
Q2603	B-1	©						
Q2604	A-5	(Ē)						
Integrated Circuit								
IC2601	B-5	(Ē)						
IC2602	B-2	©						
IC2603	A-3	©						
Connector								
P2601	B-2	©						
P2602	A-1	©						
P2603	A-2	©						
P2604	B-3	©						

# ADDRESS INFORMATION © ··· COMPONENT SIDE ① ··· FOIL SIDE



3—78

3-79

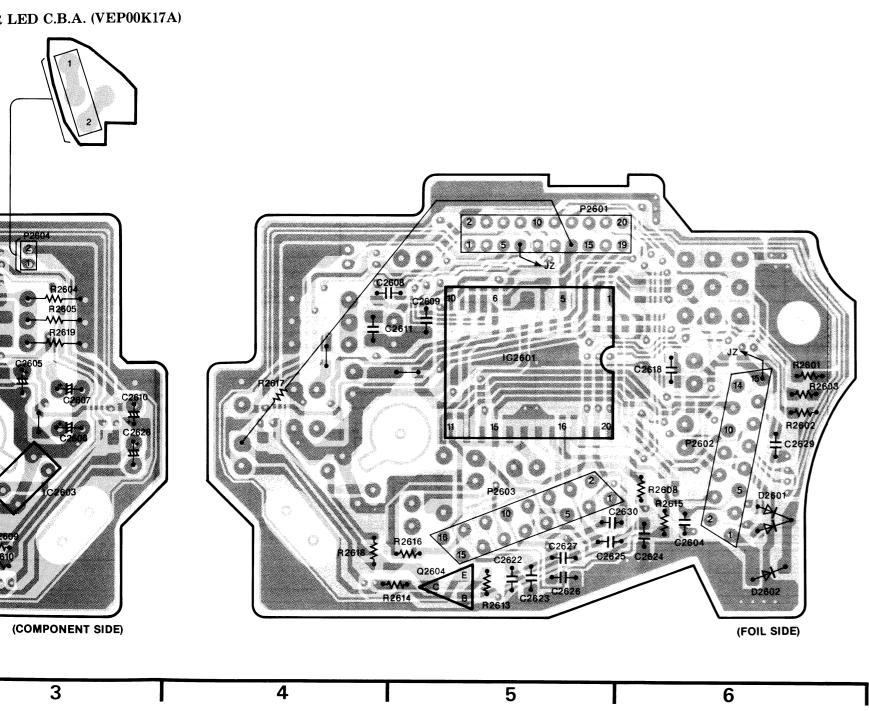
#### DRIVE C.B.A. Transistor B-1 © B-1 © B-1 © A-5 F Q2601 Q2603 Q2604 Integrated Circuit IC2601 B-5 (F) B-2 (C) A-3 (C) IC2602 Connector

#### ADDRESS INFORMATION

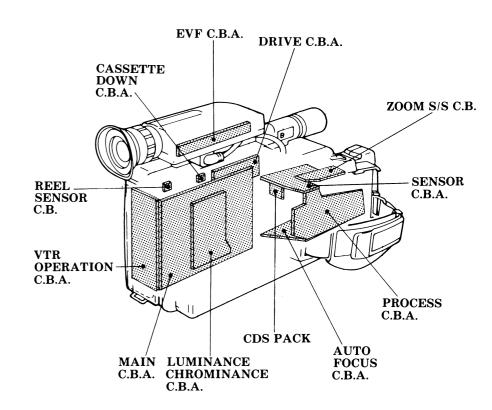
P2601 P2602 P2603 P2604

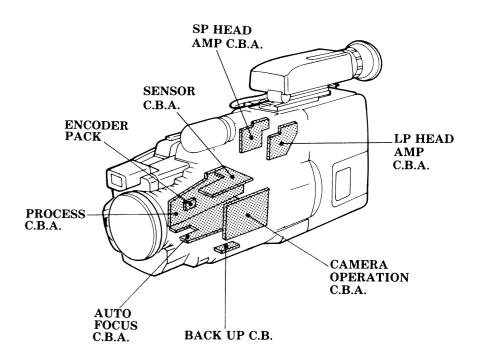
© ··· COMPONENT SIDE ⑤ ··· FOIL SIDE

B-2 © A-1 © A-2 © B-3 ©

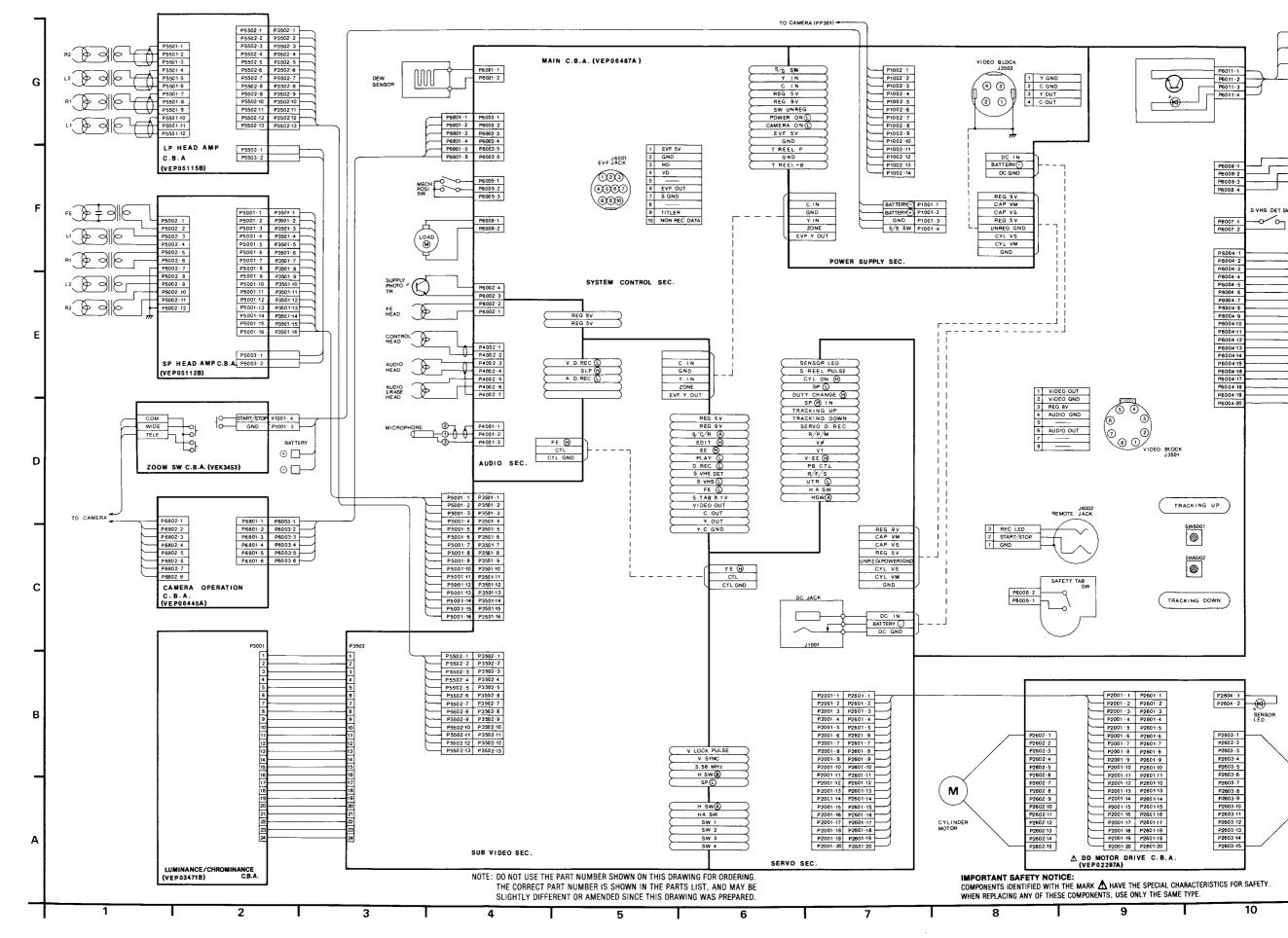


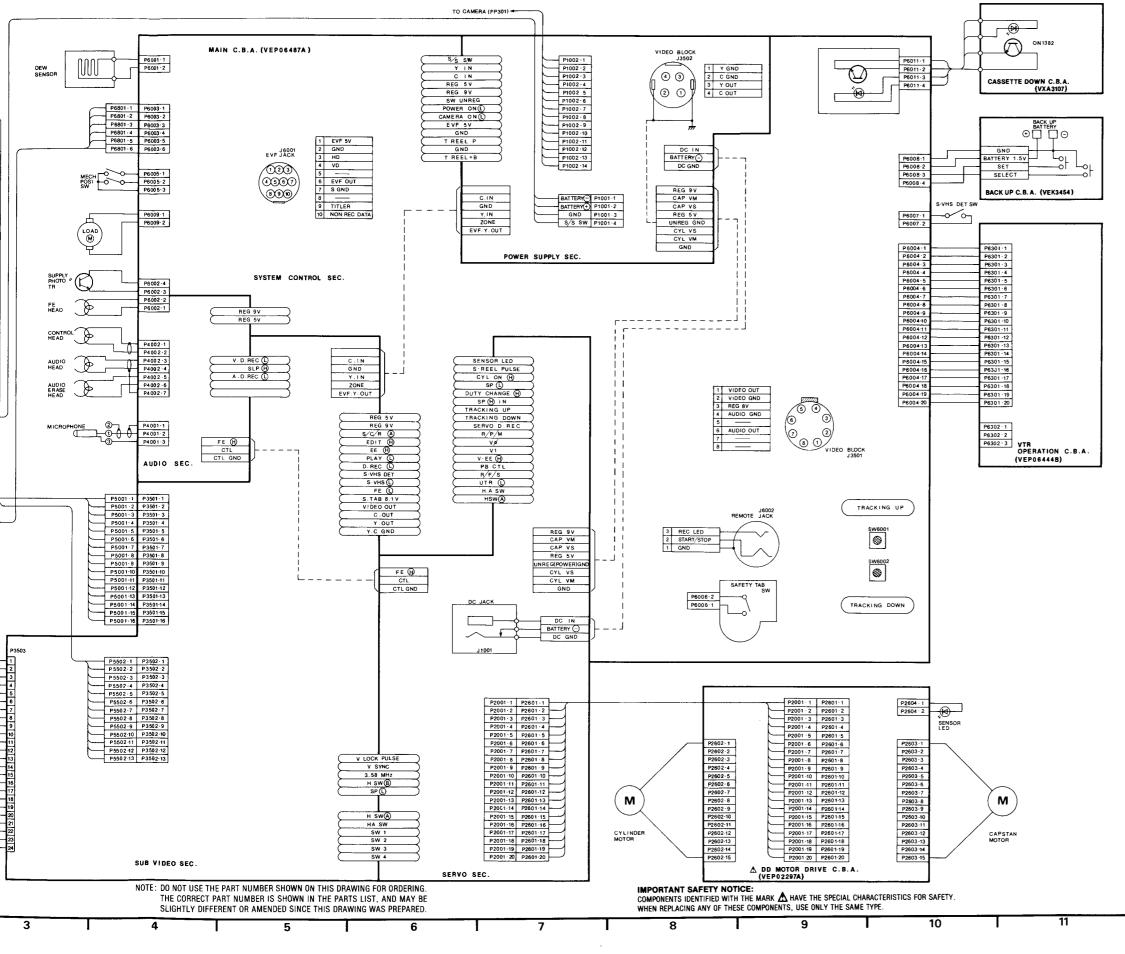
#### 3-30. CIRCUIT BOARD LAYOUT





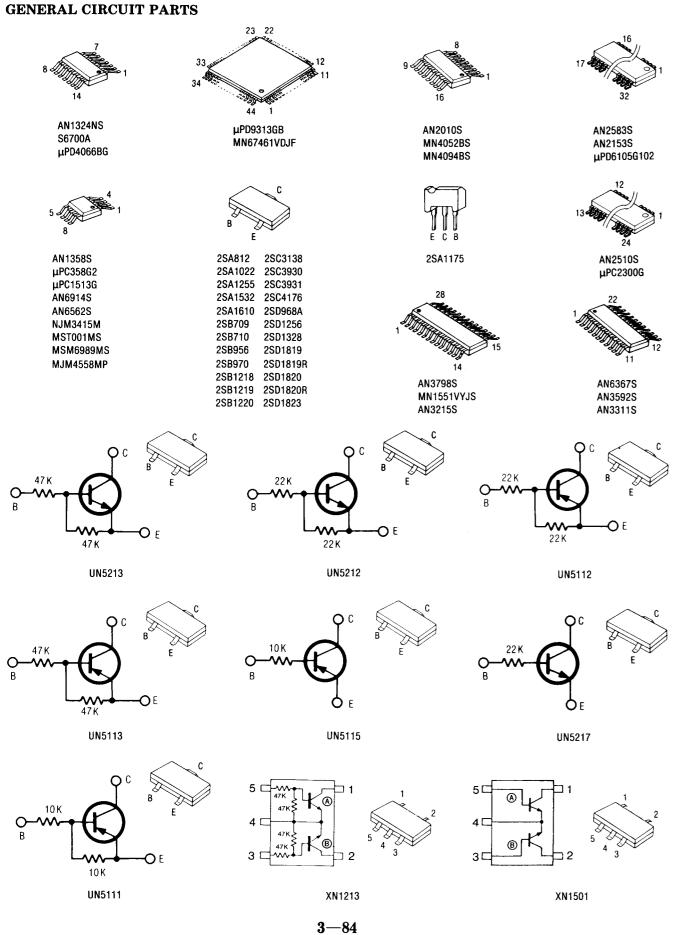
#### 3-31. VTR INTERCONNECTION SCHEMATIC DIAGRAM

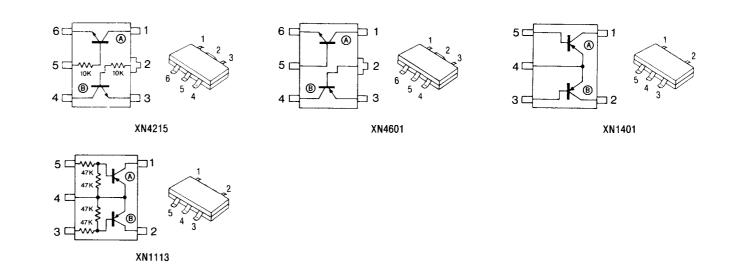




Next Page: ICs & TRs INFORMATION Section

#### 3-32. ICs & TRs INFORMATION

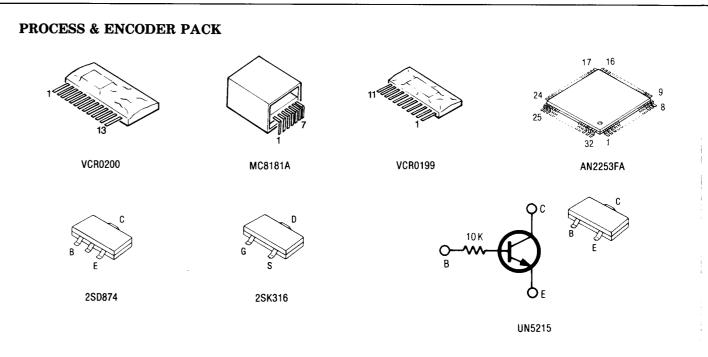


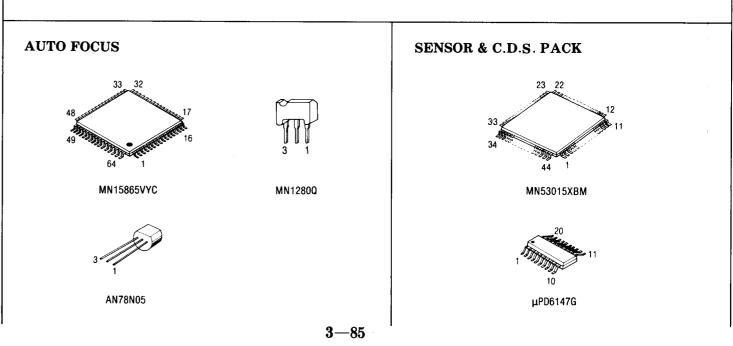


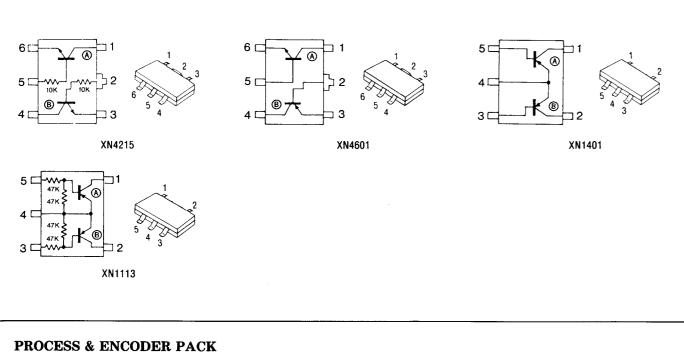
POWER SUPPI

SYSTEM CONT

LUMINANCE &



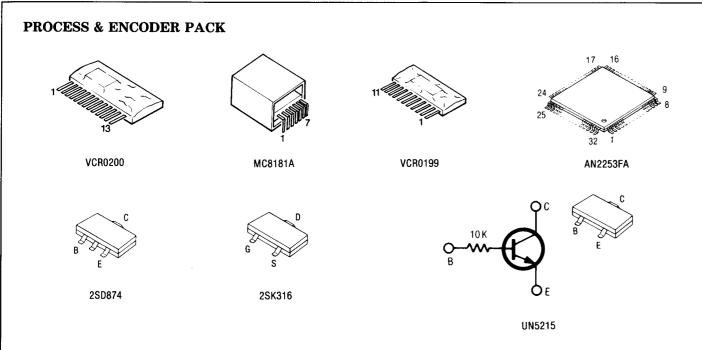


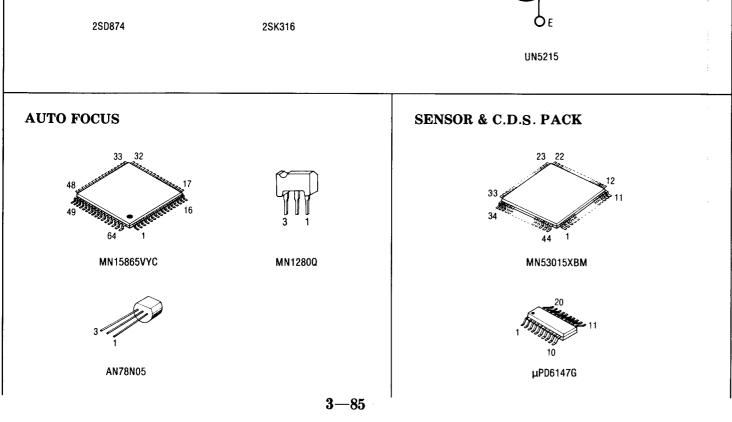


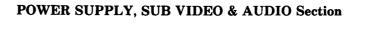
AN2583S AN2153S µPD6105G102

AN2510S μPC2300G

AN6367S AN3592S AN3311S



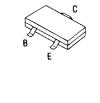






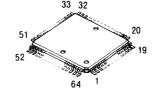
BA6149LS

UN102



UN5116

#### SYSTEM CONTROL Section

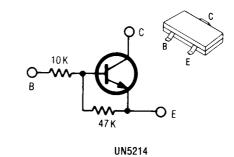


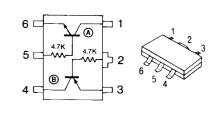


μPD75108G

M54543ASL

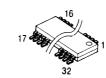
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XN4316

#### LUMINANCE & CHROMINANCE



AN3321S

BA7131

VC2031FP MN6163AS



SERVO Section

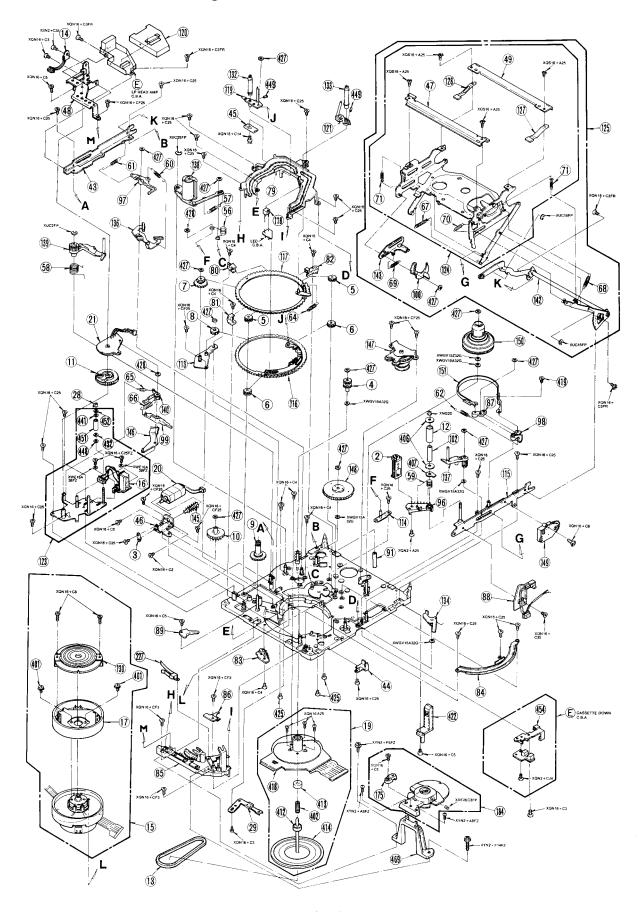


UN5117

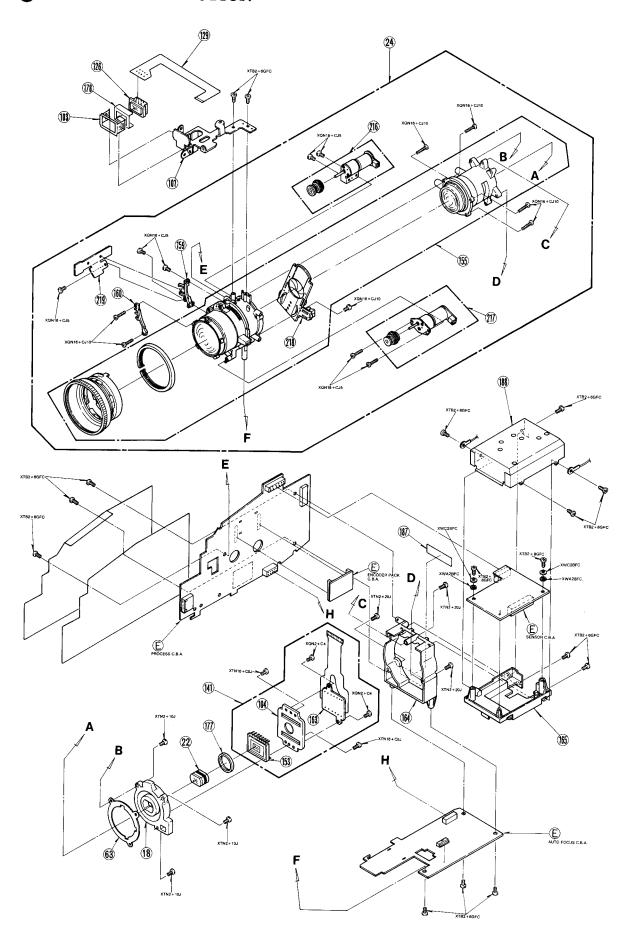
3-86

# SECTION 4 EXPLODED VIEWS & PARTS LIST

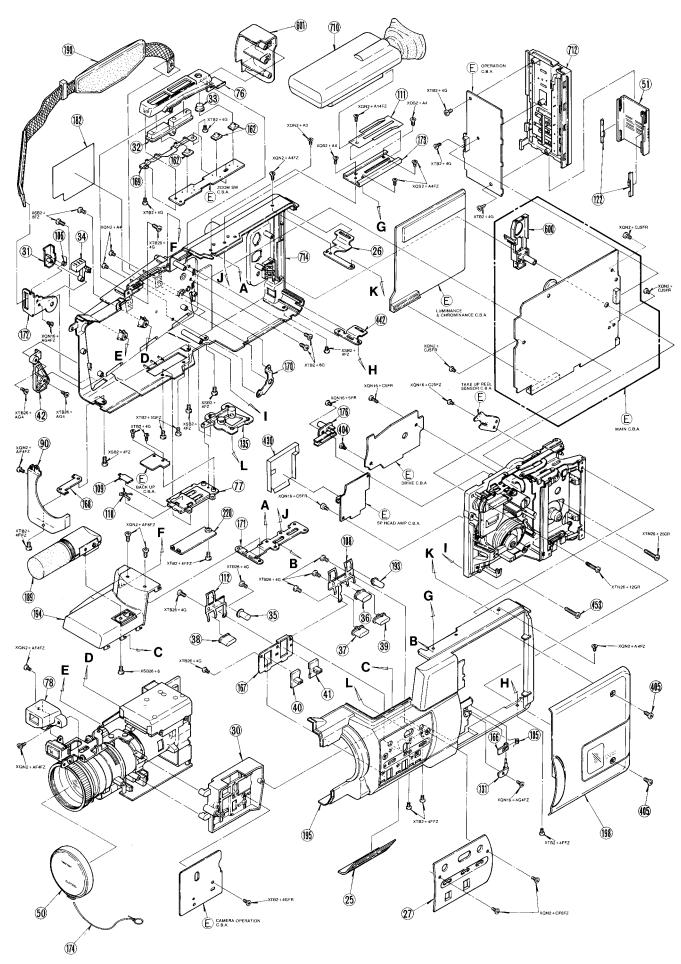
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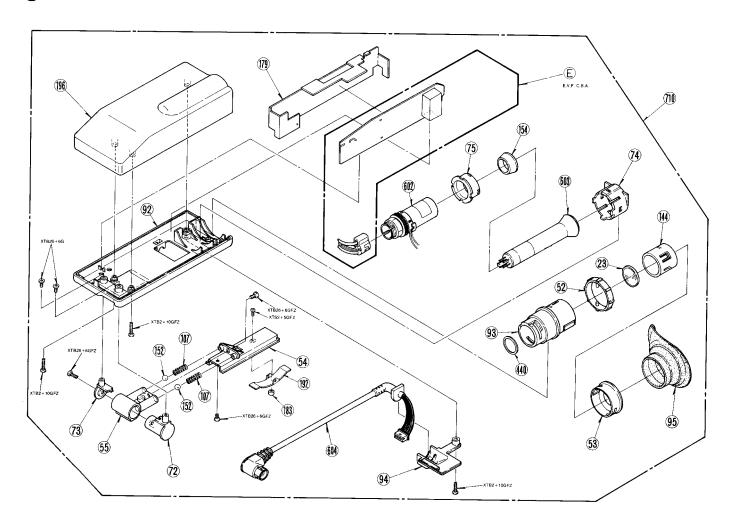
## **2** CAMERA LENS SECTION



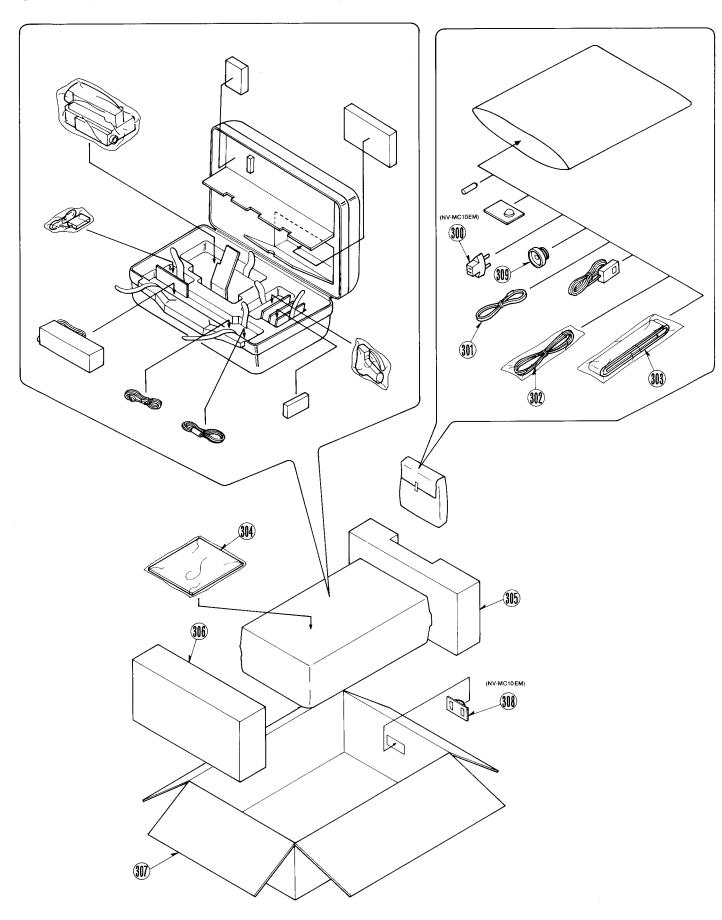
#### **3** CHASSIS & FRAME SECTION



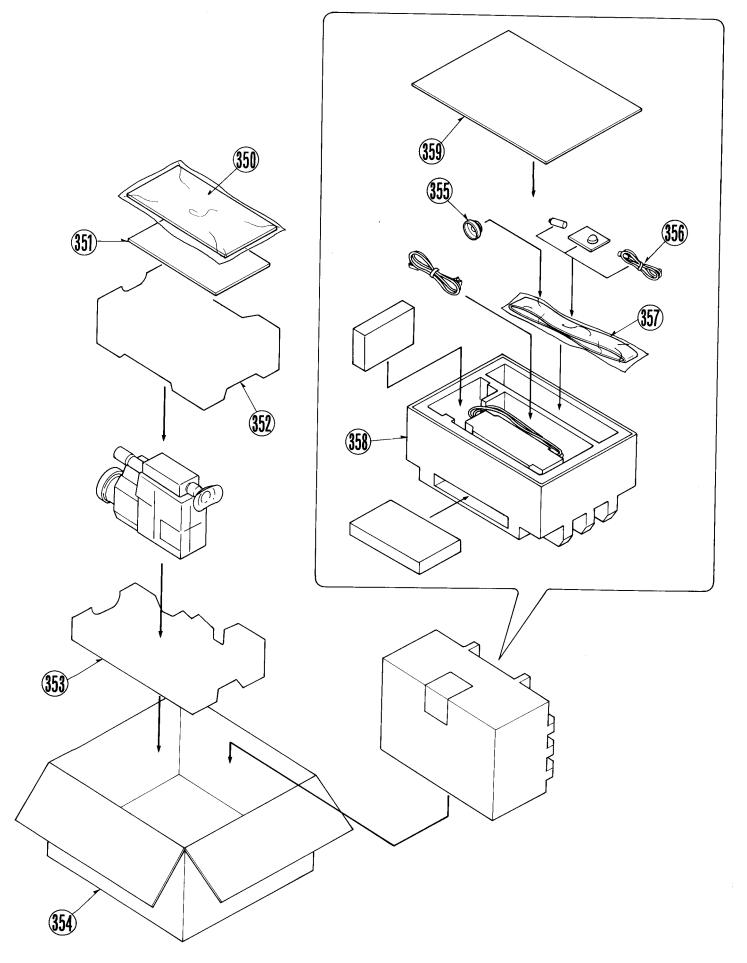
## E.V.F. SECTION



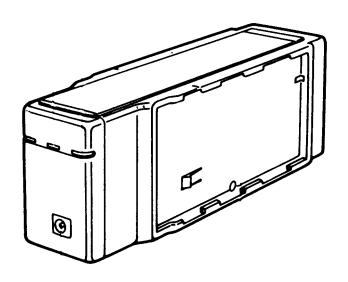
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# 6 PACKING PARTS & ACCESSORIES SECTION (NV-MC10EG/E/EN)



# VW-AMC 1 EG/E BIA EN/EM



ITEM	SPECIFICATION	ITEM	SPECIFICATION
	SOURCE: 100~240 V AC 50/60 Hz (Automatic Voltage Adjustment)	DIMENSIONS	53(W)×68.5(H)×191(D)mm
	(Automatic Voltage Aujustment)	WEIGHT	0.56 kg
POWER	CONSUMPTION: 25 watts	WEIGHT	0.00 ag
:	OUTPUT: DC 9.6 V, 1.0 A for VHS-C Movie DC 9.6 V, 0.86 A for battery charge		

Weight and dimensions shown are approximate. Specifications are subject to change without notice.

CAUTION: FOR USE WITH VHS-C VIDEO MOVIE, MODEL NV-MC10.

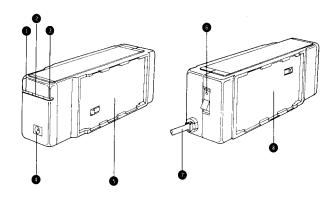
WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR

MOISTURE.

# **CONTENTS**

1.	CONTROLS AND COMPONENTS	. 1
	DISASSEMBLY PROCEDURES	
	AC ADAPTOR BLOCK DIAGRAM	
	AC ADAPTOR SCHEMATIC DIAGRAM	
	AC ADAPTOR CIRCUIT BOARDS	
	EXPLODED VIEWS	
	1. CASING & CHASSIS PARTS SECTION	6
	2. PACKING PARTS SECTION	

#### 1. CONTROLS AND **COMPONENTS**



- 1 Charge (1) Indicator Lamp
- 2 Power Indicator Lamp
- 3 Charge (2) Indicator Lamp
- DC Output Socket
- 6 Battery Holder (2)
- 6 Power Switch with Indicator Lamp
- AC Mains Lead
- Battery Holder (1)

#### 2. DISASSEMBLY PROCEDURES

#### 1.DISASSEMBLY FLOW CHART

This flow chart indicates the disassembly steps of the cabinet parts and the P.C. Boards in order to gain access to item(s) to be serviced.

When re—assembling, perform the step(s) in the reverse order.

Note:

When removing the Top Case Unit, work with care so as not to break the locking portions of the Top Case Unit.

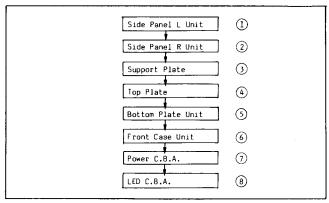


Fig. A1

## 2.DISASSEMBLY METHOD

Step	Part	REMOVAL		
/Loc No.		Fig. No.	Remove *UNLOCK/RELEASE/ UNPLUG/UNCLAMP	Note
1	Side Panel L Unit	D2	3(S-1), 2(S-2), 4(S-3), *2(L-1),	
2	Side Panel R Unit			
3	Support Plate	D2		
4	Top Plate	D3	*2(L-2)	
(5)	Bottom Plate Unit	D3		
6	Front Case Unit	D4	*2(L-3), LED C.B.A.	
7	Power C.B.A.	D3		
8	LED C.B.A.	D4	(L-4)	

List of Abbreviations: 3(S-1) = 3 Screws (S-1)2(L-1) = 2 Locking Tabs (L-1)

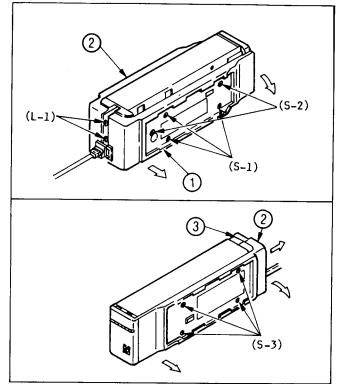


Fig. A2

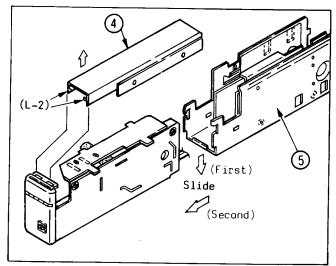


Fig. A3

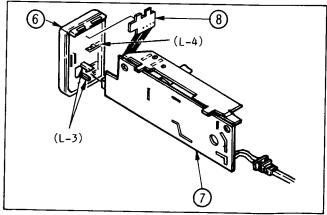
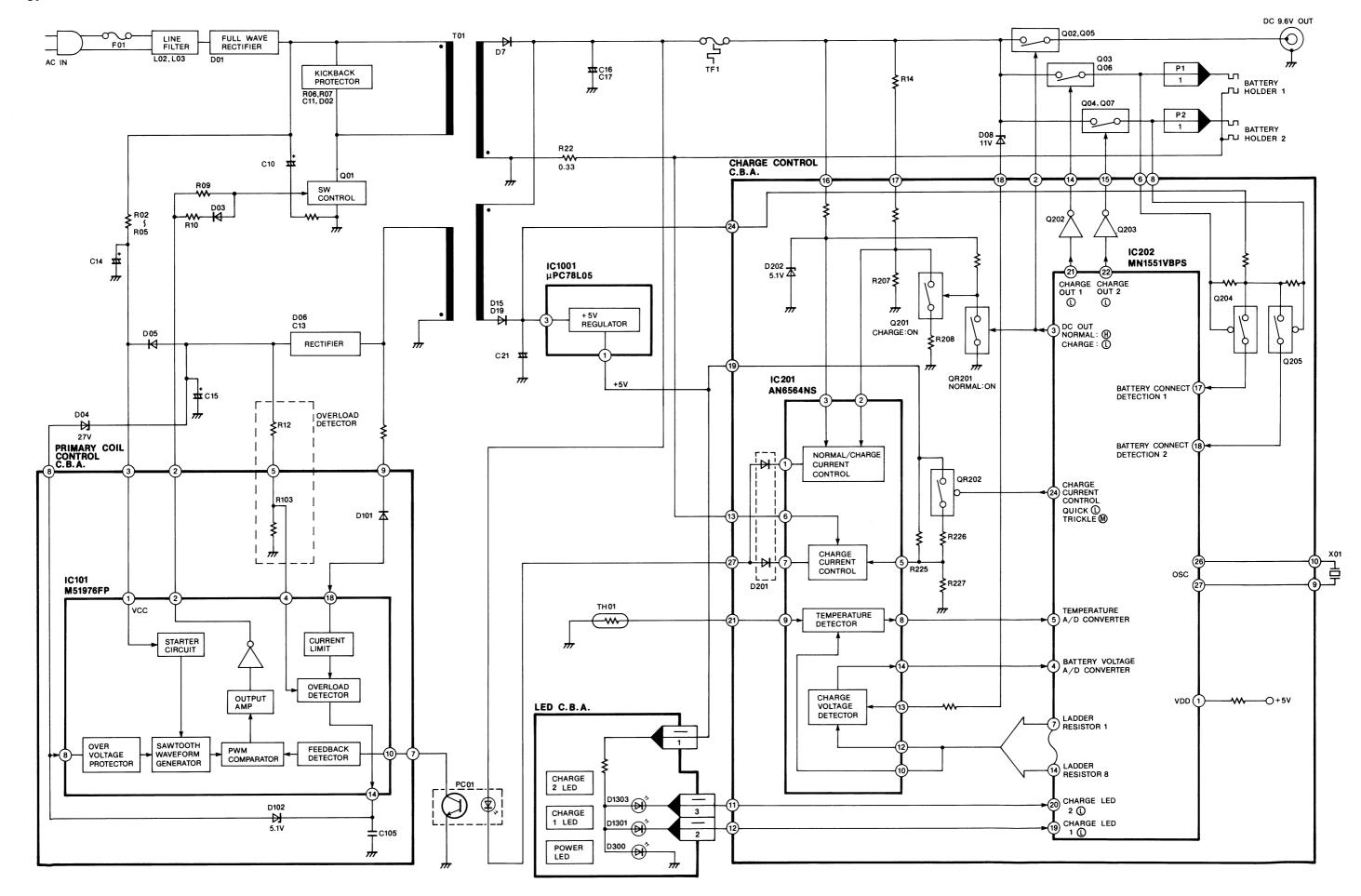


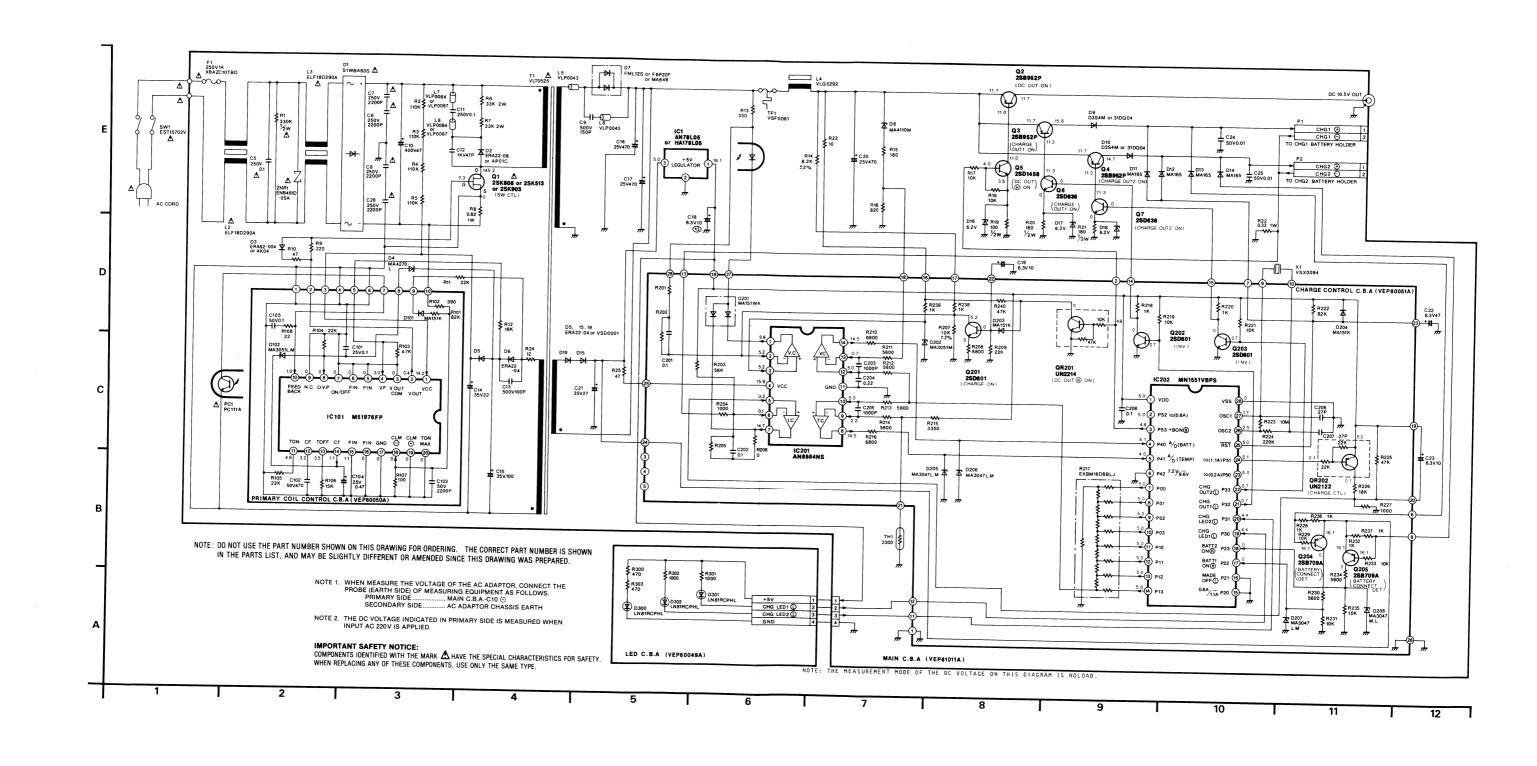
Fig. A4

## 3. AC ADAPTOR BLOCK DIAGRAM

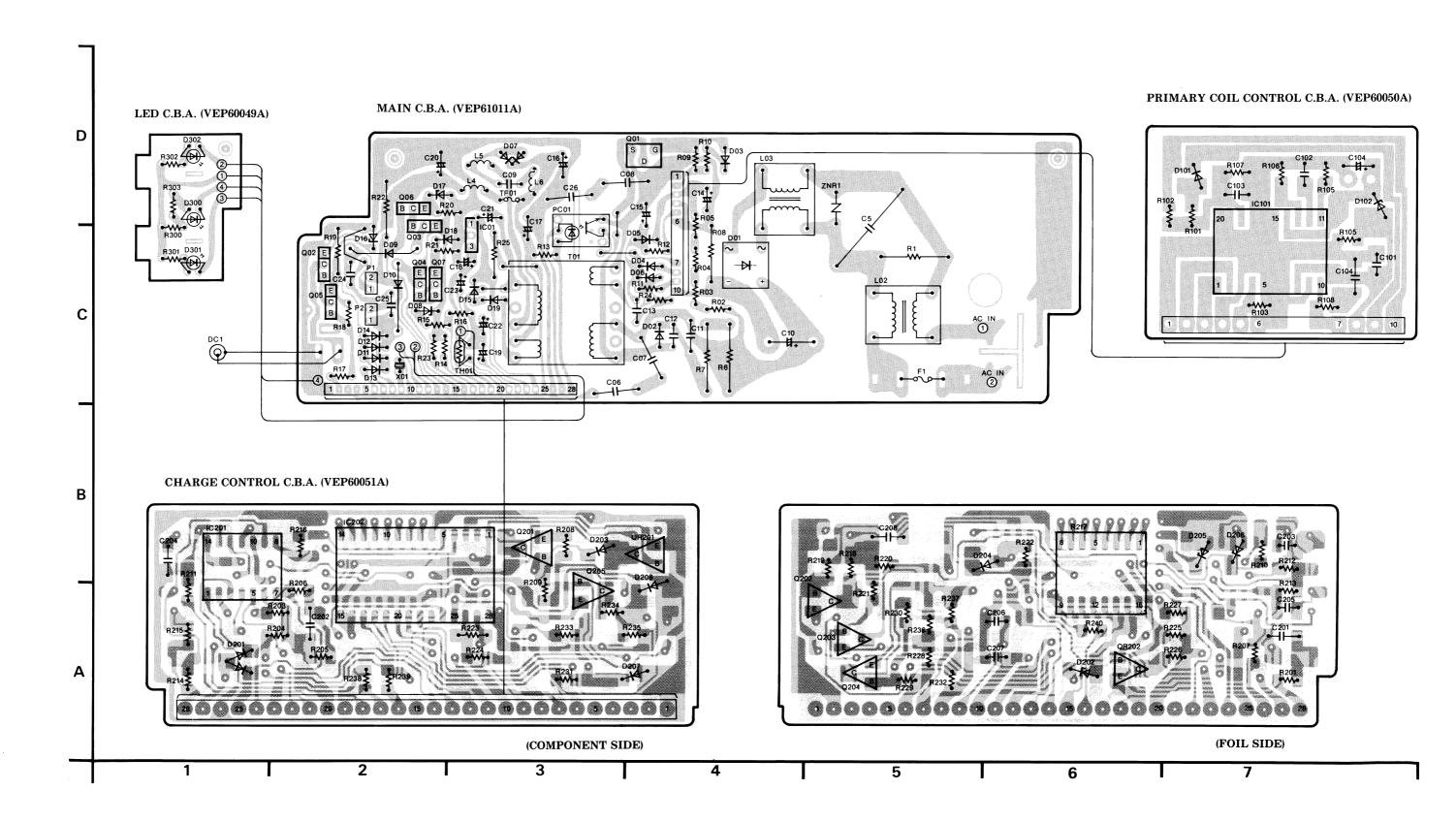


**— 3 —** 

## 4. AC ADAPTOR SCHEMATIC DIAGRAM

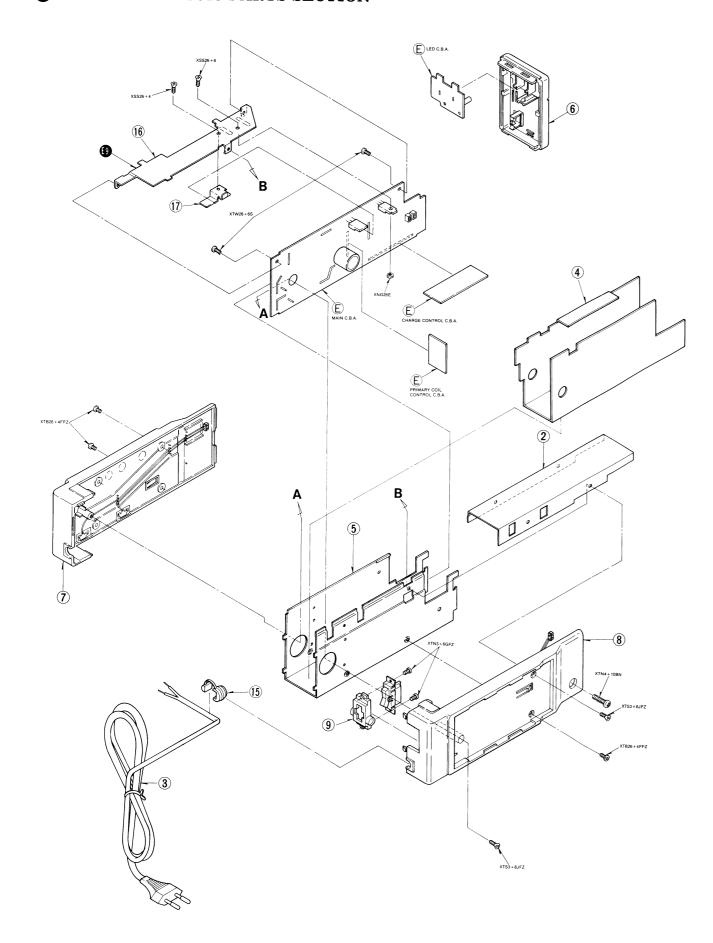


## 5. AC ADAPTOR CIRCUIT BOARDS

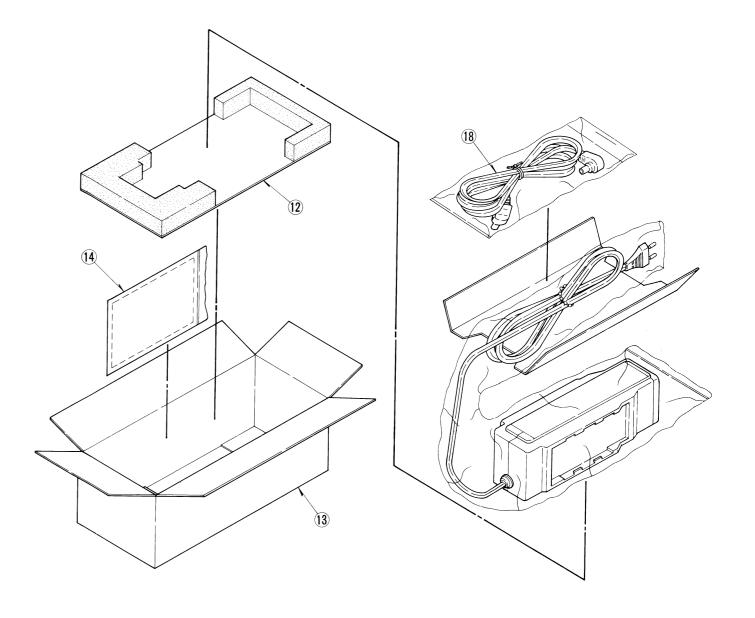


# 6. EXPLODED VIEWS

# **OCASING & CHASSIS PARTS SECTION**



# **2** PACKING PARTS SECTION



ORDER NO. VRD8709M153P PARTS LIST (Date of issue: SEP, 1987)

### MODEL NO: NV-MC10E/EG/B/EP/A/EA/EN/EM, VW-AMC1E/B/A/EA/EN/EM 1.NV-MC10E/EG/B/EP/A/EA/EN/EM

### Mechanical Replacement Parts List

\*This parts list is detachable from the manual.

Note: 1.\* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE Components identified with the mark (1) have the special characteristic components identified with the mark (1) have the special characteristic components with the component with the compo

list		our orders of replacement pa	arts according to this	D-C N-		D4 N-	Don't War C Daniel Air	_	D
Comp	ORTANT SAFETY NO Conents identifi	ed with the mark have the	ne special characteris-	Ref.No. 71(1)	1	Part No. VMB1723	Part Name & Description SAFETY SPRING (S)	Pcs 2	+
tics same	s for safety. When type.	en replacing any of these o	omponents, use only the	72(4)	+	VKC0321	ROTARY HOLDER (A)	1	
				73(4)	+ +	VKC0322	ROTALY HOLDER (B)	1	ı
				74(4)	,	VGF0244	CRT MASKING	1	
Ref.No.	Part No.	Part Name & Description	Pcs Remarks	75(4)	+	VJF0513	CRT HOLDER	1	<del></del>
2(1)	VBS0042 VDB0894	FE HEAD	1	76(3)	+	VKM1070	ZOOM CASE	1	
3(1) 4(1)	VDG0407	WORM BEARING METAL TAKEUP REEL GEAR	1	77(3)	+	VKM1071 VKM1152	BATTERY BRACKET AWT SENSOR CASE	1	
5(1)	VDG0408	RING GUIDE GEAR (S)	2	79(1)	+ +	VMD1071	LOADING GUIDE	1	<del>                                     </del>
6(1)	VDG0409	RING GUIDE GEAR (T)	2	80(1)		VMD1072	RING GUIDE (1)	1	
7(1)	VDG0410	LOADING GEAR S	1	81(1)		VMD1073	RING GUIDE (2)	1	
8(1)	VDG0411	LOADING GEAR T	1	82(1)	+ +	VMD1074	RING GUIDE (3)	1	
9(1)	VDG0412 VDG0413	TERMINAL GEAR	1	83(1)	+	VMD1100	LOADING GUIDE (T)	1	
10(1)	VDK0017	MOTOR GEAR CONTROL CAM	1	84(1)	+	VMD1077 VMD1168	LOADING GUIDE (S) V STOPPER BASE	1	+
12(1)	VDP1146	S1 ROLLER	1	86(1)	+ +	VMD1079	SUPPLY GUIDE PLATE	1	
13(1)	VDV0170	DRIVE BELT	1	87(1)	1	VMD1082	BAND ADJUSTMENT PIECE	1	
14(1)	VEE3722	DEW SENSOR UNIT	1	88(1)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	VEK3446	END SENSOR UNIT	1	
15(1)	VEC0576	DD CYLINDER UNIT	1 (!)	89(1)	+	<del></del>	RING LIMITER	1	
16(1)	VED0042 VEH0371	A/C HEAD UNIT UPPER CYLINDER UNIT	1 1	90(3)	+ +	VKM1153 VMD1156	LENS FRONT COVER C.B. STOPPER	1	
18(2)	VXQ0020	ACTUATER UNIT	1	92(4)	+	VKM1079	EVF BOTTOM CASE	1	1
19(1)	VEM0284	CAPSTAN MOTOR UNIT	1 (1)	93(4)	+ +	VKM1080	EYESIGHT CORRECTION CASE	1	·
20(1)	VEM0292	LOADING MOTOR 1 UNIT	1 (1)	94(4)		VJF0514	CABLE HOLDER	1	
21(1)	VES0416	MODE SELECT SW UNIT	1	95(4)	+ +	VMG0408	EYE CAP	1	
22(2)	VDL0143A	CHRYSTAL FILTER UNIT	1	96(1)	+ +	VML2102	ERASE HEAD LEVER	1	
23(4)	VDL0145 VXW0001	EVF LENS LENS UNIT	1 1	97(1)	++	VML2026 VML2028	SOFT BRAKE ARM BAND ARM	1	<del> </del>
25(3)	VGQ1357	HAND PAD (R)	1	99(1)	+ +		TAPE GUIDE LEVER 1	1	
26(3)	VMP1350	SHOULDER STRAP ANGLE	1	100(1)	+ +	VML2040	OPEN LEVER	1	<del></del>
		(UPPER)		101(2)	\	/MP1353	AWT SENSOR ANGLE	1	
27(3)	VGP1726	CAMERA OPERATION PANEL	1	102(1)	+		S1 COLLAR	1	
28(1)	VMD1145	T3 POST CAP	1	103(2)	+-+	MP1105	AWT SENSOR HOOK	1	
30(3)	VXS0077 VKM1077	CAMERA OPERATION BRACKET	1 1	104(2)	+	/MA7183 /MB1745	CCD PLATE SAFETY LEVER SPRING	1	
31(3)	VGQ1345	BATTERY FIXING HOLDER	1	106(3)	+	/MB1744	BATTERY FIXING SPRING	1	
32(3)	VGU3926	ZOOM BUTTON	1	107(4)		/MC0337	COIL SPRING	2	
33(3)	VGU3927	S/S BUTTON	1	108(3)	\ \	VMC0331	RETURN SPRING (A)	1	
34(3)	VGU3928	BATTERY FIXING KNOB	1	109(3)	+	VMC0326	BATTERY TERMINAL BOARD (A)	1	
35(3)	VGU3932	REC. REVIEW BUTTON	1	110(3)	+	/MC0327	BATTERY TERMINAL BOARD (B)	1	
36(3) 37(3)	VGU3933 VGU3936	BACK LIGHT BUTTON HSS BUTTON	1 1	111(3)	+	/MC0328 /MC0346	SHOE SPRING RETURN SPRING (B)	1	
38(3)	VGU3935	ZOOM FOCUS BUTTON	1	113(1)	+	/XA3052	LOADING GEAR BASE UNIT	1	<del></del>
39(3)	VGU3937	T/D BUTTON	1	114(1)	1	/XA3033	CASSETTE SUPPORT PLATE UNIT	1	
40(3)	VGU3939	AUTO/MANUAL KNOB	1	115(1)	,	/XA3053	CASSETTE STAND S1 UNIT	1	
41(3)	VGU3938	WHITE BALANCE KNOB	1	116(1)	++-	/XA3037	LOADING RING (T) UNIT	1	
42(3)	VKC0320	BATTERY FIXING HINGE	1	117(1)	+	/XA3061	LOADING RING S1 UNIT	1	<del> </del>
43(1)	VMA7109 VMA7112	CASSETTE STAND (T) MR SHIELD COVER	1	118(1)	+	TLN107A VXA3062	SENSOR LED SHAFT HOLDER T1 UNIT	1	
45(1)	VMA7119	T1 SLIDE PLATE	1	120(1)	++		LP, HA SHIELD CASE (UPPER)	1	<del>                                     </del>
46(1)	VMA7120	LOADING MOTOR HOLDER	1	121(1)	$\rightarrow$		SHAFT HOLDER S1 UNIT	1	
47(1)	VMA7125	HOLDER STAY (R)	1	122(3)	\ \	/MC0335	SLIDING LID SPRING	2	
48(1)	VMA7248	H.A PLATE	1	123(1)	+-+		A/C HEAD BASE UNIT	1	<del></del>
49(1)	VMA7138	HOLDER STAY (F)	1	124(1)	+ +		CASSETTE HOLDER UNIT	1	
50(3) 51(3)	VKF0963 VKF0973	HOOD CAP SLIDING LID	1	125(1)	+	VXA3034 VEK3435	CASSETTE UP UNIT AWT SENSOR UNIT	1	
52(4)	VGU3946	EYESIGHT CORRECTION RING	1	127(1)	$\rightarrow$	VXA2958	CATCH PLATE (S) UNIT	1	
53(4)	VJ F0512	EYE CAP HOLDER	1	128(1)	+		CATCH PLATE (T) UNIT	1	
54(4)	VGQ1347	EVF FOOT	1	129(2)	+ +		AWT FLEXIBLE CABLE	1	+
55(4)	VKC0323	ROTALY PIECE	1	130(1)	$\rightarrow$		UPPER RT (R) UNIT	1	
56(1)	VMB1705	CAM SPRING	1	131(3)	++	VMD1123	LEVER HOLDER	1	
57(1) 58(1)	VMB1774 VMB1707	PINCH ROLLER SPRING TAPE GUIDE ARM SPRING	1 1	132(1)	+ +		T1 ROLLER POST UNIT S1-ROLLER POST UNIT	1	
59(1)	VMB1785	ERASE HEAD SPRING	1	134(1)	+ +		EJECT LEVER UNIT	1	<del></del>
60(1)	VMB1710	SOFT BRAKE SPRING (1)	1	135(3)	+ +		TRIPOD FIXING BRACKET	1	
61(1)	VMB1711	SOFT BRAKE SPRING (2)	1	136(1)		VXL1670	SOFT BRAKE UNIT	1	
62(1)	VMB1786	TENSION SPRING	1	137(1)	+-+		TENSION ARM UNIT	1	
63(2)	VMX1347	ACTUATER FRAME	1	138(1)	+		PRESSURE LEVER UNIT	1	
64(1) 65(1)	VMB1714	LOADING SPRING (S)	1 1	139(1)	+ +		TAPE GUIDE ARM UNIT TAPE GUIDE LEVER 2 UNIT	1	
66(1)	VMB1717 VMB1718	TAPE GUIDE LEVER SPRING 1 TAPE GUIDE LEVER SPRING 2	1	140(1)	+		CCD UNIT	1	<del></del>
67(1)	VMB1719	SPRING (T)	1	142(1)	+ +		MAIN ARM (1) UNIT	1	
68(1)	VMB1720	SPRING (S)	1	143(1)			OPEN SLIDE LEVER (1) UNIT	1	
69(1)	VMB1721	OPEN SLIDE LEVER SPRING	1	144(4)	++	/JF0511	LIENS HOLDER	1	
70(1)	VMB1722	LOCK SPRING	1	145(1)		/XP0905	WORM GEAR UNIT	1	
<b>  </b>	+				+-+				
tL		1	<u> </u>		l l				

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
146(1)	VXP0904	SECTOR GEAR UNIT	1		306(5)	VPN1995	CUSHION (L)	-	NV-MC10B/EP/A/EA/E
147(1)	VXP0922	IDLER UNIT	1		307(5)	VPG3701	PACKING CASE	1	NV-MC10B
148(1)	VXP0890	CLUTCH GEAR (T) UNIT	1		307(5)	VPG3787	PACKING CASE	1	NV-MC10EP
149(1)	VXP0891	DAMPER UNIT	1		307(5)	VPG3705	PACKING CASE	1	NV-MC10EN
150(1)	VXR0169	SUPPLY REEL TABLE UNIT	1		307(5)	VPG3704	PACKING CASE	+	NV-MC10A
151(1)	VXZ0249	TENSION BAND UNIT	1		307(5)	VPG3706	PACKING CASE	+	NV-MC10EA
152(4)	VMP1358	STEEL BALL	2		308(5)	VPN1409	HANDLE	+	NV-MC10EM
153(2) 154(4)	MN3745F VMX1004	CRT RUBBER	1		309(5)	VDWOO69	HOOD	-	NV-MC10B/EP/EN/A/E /EM
155(2)	VXW0019	LENS ASSEMBLY	1		350(6)	VQT2430	OPERATING INSTRUCTIONS	1	NV-MC10E/EG(ENGLIS
159(2)	VJ F0518	ENCODER HOLDER (B)	1		330(0)	1012400	or market rolls	<del>                                     </del>	GERMAN/FRENCH)
160(2)	VJ F0517	ENCODER HOLDER (A)	1		350(6)	VQT2431	OPERATING INSTRUCTIONS	1	NV-MC10E(SWEDISH/
161(2)	VXA3245	PROCESS C.B.A. SHIELD CASE	1						DENISH/FINNISH)
162(3)	VMG0358	200M SW	1		350(6)	VQT2432	OPERATING INSTRUCTIONS	1	NV-MC10E(SPANISH/
163(2)	VWJ0289	CCD FLEXIBLE CABLE UNIT	1						ITALY/DATCH)
164(2)	VJF0519	SENSOR FRAME	1		351(6)	VPN1998	TOP PAD	+	NV-MC10E/EG
165(2)	VMD1143	SENSOR C.B.A. FRAME	1		352(6)	VPN1958	CUSHION (UPPER)	+	NV-MC10E/EG/EN
166(3)	VML2063	SAFETY LEVER	1		353(6)	VPN1959	CUSHION (LOWER)	+	NV-MC10E/EG/EN NV-MC10EG
167 (3) 168 (3)	VMP1354 VMP1356	KNOB ANGLE LENS FRONT COVER ANGLE	1	-	354(6) 354(6)	VPG3702 VPG3703	PACKING CASE PACKING CASE	-	NV-MC10E
169(3)	VMP1336	ZOOM CASE ANGLE	1		354(6)	VPG3707	PACKING CASE	•	NV-MC10EN
170(3)	VMP1351	CRIP BELT ANGLE (REAR)	1		355(6)	VDW0069	HOOD	-	NV-MC10E/EG/EN
171(3)	VMP1352	EVF SHOE FIXING ANGLE	1		356(6)	VFA0050	AV OUTPUT CABLE	-	NV-MC10E/EG
172(3)	VMP1349	GRIP BELT ANGLE	1		356(6)	VFA0049	AV OUTPUT CABLE	1	NV-MC10EN
173(3)	VMP1348	EVF SHOE	1		357(6)	VFC0130	SHOULDER STRAP	-	NV-MC10E/EG
174(3)	VGQ1349	HOOD STRAP	1		357(6)	VFC0131	SHOULDER STRAP	+	NV-MC10EN
175(1)	VMD1132	LEAD CLUMPER	1		358(6)	VPN1996	ACCESSORIES BOX	-	NV-MC10E/EG/EN
176 (3)	VMX1253	C.B. SPACER	1		359(6)	VPN1997	PAD (A)	<del>                                     </del>	NV-MC10E/EG/EN
177(2)	VMX1276	CCD CUSHION	1		360(6)	VPN2008 VMX1247	HANDLE S1 LIMITER	2	NV-MC10EN
178(2) 179(4)	VGF0210 VMZ1076	AWT COVER EVF BARRIER	1		400(1) 401(1)	VHD0288	P3 ADJUST SCREW	2	
182(3)	VGH1401	BATTERY NAME PLATE	1		402(1)	VMB1734	THRUST SPRING	1	
183(4)	VMD1207	HOLDER	1		404(3)	VHD0363	SCREW	2	
184(1)	VET0049	UPPER RT (S) ARM UNIT	1		405(3)	VHD0377	CASSETTE COVER SCREW	2	
187(2)	VSC2399	SENSOR FRAME SHIELD	1		407(1)	VMX1252	S1 SPACER	1	
188(2)	VSC2155	SENSOR SHIELD	1		412(1)	VDB0899	UNDER BEARING	1	
189(3)	VEK3449	MIC UNIT	1		413(1)	VDB0898	UPPER BEARING	1	
190(3)	VYC0212	GRIP BELT UNIT	+	NV-MC10EG/B/E/EP/A/EA	414(1)	VXP0873	ROTOR UNIT	1	
190(3)	VYC0205	GRIP BELT UNIT	1	NV-MC10EN/EM	418(1) 419(1)	VEK3345 VHD0390	STATOR UNIT	1	
192(4) 193(3)	VML2118 VGU3934	LEVER FADE BUTTON	1		422(1)	VEK3501	SAFETY TAB SW	1	
194(3)	VKM1301	TOP CASE	1		425(1)	VHD0389	SCREW	3	
195(3)	VKM1106	SIDE CASE (R)		NV-MC10EN/EM	427(1)	VMX1061	CUT WASHER (A)	12	
195(3)	VKM1105	SIDE CASE (R)	1	NV-MC10EG/B/E/EP/A/EA	428(1)	VMX1042	CUT WASHER (B)	2	
196(4)	VKM1154	EVF TOP CASE	1	NV-MC10EG/E/EP/A/EA	430(3)	VSC2210	SP, HA SHIELD CASE (UPPER)	1	
196(4)	VYK2005	EVF TOP CASE	1	NV-MC10B	432(1)	VMD1189	T3 POST BOTTOM	1	
196(4)	VKM1318	EVF TOP CASE		NV-MC10EN/EM	440(4)	VMX1322	O RING	1	
198(3)	VGP1751	CASSETTE COVER	1		441(1)	VMS3608	SPACER	1	
216(2)	VEMO286	ZOOM MOTOR	1		442(3)	VMP1355	SHOULDER STRAP ANGLE	1	<del></del>
217(2)	VEM0285	AUTO FOCUS MOTOR	1		448(1)	VMB1716	(LOWER) T3 POST SPRING	1	
218(2)	VXL1635 VEP30038A	IRIS UNIT ENCODER C.B	1		448(1)	VHD0392	SCREW	2	
220(3)	VKF0957	BACKUP BATTERY LID	1		451(1)	VMX1251	P1 SPACER	1	
227(1)	VMC0360	PRESSURE PLATE	1		452(1)	VHNO065	T3 POST NUT	1	
300 (5)	VJSS0070	AC PLUG ADAPTOR	+	NV-MC10EM	453(3)	VHDO395	SCREW	1	
301 (5)	VFA0050	AV OUTPUT CABLE	1	NV-MC10B/EP	454(1)	VMD1103	CASSETTE DOWN C.B HOLDER	1	
301 (5)	VFA0049	AV OUTPUT CABLE		NV-MC10A/EA/EM	469(1)	VMA7050	STATOR ARM (2)	1	
302(5)	VJA0376	DIN RF CABLE	1	NV-MC10B/EP/EN/A/EA	600(3)	VJF0509	JACK HOLDER	1	
			4	/EM	601(3)	VKF0970	GRIP BELT ANGLE COVER	1	
303(5)	VFC0130	SHOULDER STRAP		NV-MC10B/EP/A/EA	602(4)	ELYO7V552B	DY	-	(1)
303(5)	VFC0131	SHOULDER STRAP	+	NV-MC10EM	603(4)	MO1JVV47WB	CRT	1	(1)
304(5)	VQT2557	OPERATING INSTRUCTIONS		NV-MC10B (ENGLISH)	710(3)	VEK3437 VEK3425	10P CABLE EVF UNIT	-	NV-MC10EG/A/EA/E/E
304(5)	VQT2430	OPERATING INSTRUCTIONS	1	NV-MC10EP(ENGLISH/ GERMAN/FRENCH)	710(3)	VEX3425 VEX3452	EVF UNIT		NV-MC10B
304(5)	VQT2432	OPERATING INSTRUCTIONS	1	NV-MC10EP(SPANISH/	710(3)	VEK3452 VEK3451	EVF UNIT	-	NV-MC10EN/EM
-2-(3)	121575		+-	ITALY/DATCH)	712(3)	VYK1733	VTR OPERATION CASE (1) UNIT	<b>├</b> ─	
304(5)	VQT2434	OPERATING INSTRUCTIONS	1	NV-MC10EN(ENGLISH/CHI	714(3)	VYK1729	SIDE CASE (L) (1) UNIT	1	
			T	CHINESE)					
304(5)	VQT2433	OPERATING INSTRUCTIONS	1	NV-MC10A (ENGLISH)					
304(5)	VQT2435	OPERATING INSTRUCTIONS	1	NV-MC10EA(ENGLISH)(!>				1_	
304(5)	VQT2436	OPERATING INSTRUCTIONS	1	NV-MC10EM(ENGLISH/				<u> </u>	
			ļ	ALABIC)				-	
304(5)	VQT2437	OPERATING INSTRUCTIONS	1	NV-MC10EM(HINDY/URDU)	<b></b>		SERVICE FIXTURES	-	<del> </del>
205 15			+		L	VFM8180H8PF	VHS-C ALIGNMENT TAPE (PAL)	1	<del>+</del>
4(17) (5.)	VPN1994	CUSHION (R)	1	NV-MC10B/EP/A/EA/EM	L	VFK0326	HEX WRENCH SET	<del>  -</del>	<del> </del>
305 (5)					1		1		
305(3)			ļ						

Ref.No.		
VFK27		
MOR265   MORYTONE GREASE   1		
VFKSOO67		
VFKSO075		
VFKSO68		
VFKSOGO		
VFK0430		
VFK0380		
VFKSO74		
VFK0374         C12 FILTER         1           VFK0375         C2 FILTER         1           VFK0382         CAMERA HOLDER         1           VFK0431         CAMERA HOLDER ARM         1           VFK0432         HOLDER SPACER         2		
VFK0375         C2 FILTER         1           VFK0382         CAMERA HOLDER         1           VFK0431         CAMERA HOLDER ARM         1           VFK0432         HOLDER SPACER         2		
VFK0382         CAMERA HOLDER         1           VFK0431         CAMERA HOLDER ARM         1           VFK0432         HOLDER SPACER         2		
VFK0431         CAMERA HOLDER ARM         1           VFK0432         HOLDER SPACER         2		
VFK0432 HOLDER SPACER 2		
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Note:1.\* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components, use only the same type.
3. Unless otherwise specified,

Comment   Comm	CYDY	resistors are	pecified, in OHMS ,K=1,000 OHMS. All c	apacıt	ors are in MICRO-	11	-				· '	
Part No.   Part No.	4.The	P.C.Board unit	s marked width' show below	the ma	ain assembled parts.	][			CONNECTORS			
Part Nov.   Part Nov.   Reserviption   Pos.   Reservis		***************************************						VJP1948	CONNECTOR	(MALE)	1	
CAMERA SECTION   CAMERA   CA				T		FP201	1	VJS2125	CONNECTOR		1	
VIRTURE   1   CODI	.No.	Part No.	Part Name & Description	Pcs	Remarks		1				1	
March   Marc				$\top$		1	<b>T</b>		,			
MPS2073A   SENSIGE C.B.A.   1   C202   SCRILLEGOOD GIFE   299   10			CAMERA SECTION			11	1		CAPACITORS		1	
WIREZOTA   SESSION C.B.A.   1						C201	1-	ECSF1AE476	+	10V 47U	1	
WIREZOTAN   C.D.S. PICK C.B.A.   1   C206   RESULPIONAL GIFF   DOWN 19P   C206   RESULPANCIA GIFF   DOWN 19P   C207   RE		VEP22073A	SENSOR C.B.A.	1			$\dagger$	1		·	1	
VERZOUTAN   C. J. S. FINCK C. B. A.   1   C206   ERILLISANDOM PICTURE   500 39P				+		-	1	<del>i</del>			1	
MPZ30548   PROCESS C.B.A.   1   C207   SSPERADE INSTRUME   100   100		VEP22074A	C.D.S. PACK C.B.A.	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4	+				1	
WEZ-3064B  PROCESS C. B.A.   1   C209   ESSFABLES   INTRALM   100   302     WEZ-3061B  PROCESS C. B.A.   1   C209   ESSFABLES   E-CAMPATOR 6 , 3V   220     WEZ-3061B  PROCESS C. B.A.   1   C211   ESTATUS   E-CAMPATOR 50V   310     WEZ-3061B  PROCESS C. B.A.   1   C211   ESTATUS   E-CAMPATOR 50V   310     WEZ-3061B  ATTO FOCUS C. B.A.   1   C211   ESTATUS   E-CAMPATOR 50V   101     C213   ESTATUS   C. CAMPATOR 50V   101     C214   ESTATUS   C. CAMPATOR 50V   101     C215   ESTATUS   C. CAMPATOR 50V   101     C216   ESTATUS   C. CAMPATOR 50V   101     C217   ESTATUS   C. CAMPATOR 50V   101     E.V. F. SECTION   C. CAMPATOR 50V   101     E.V. F. SECTION   C. CAMPATOR 50V   101     WEZ-3060   E.V. F. C. B.A.   1   C28   ESTATUS   C. CAMPATOR 50V   770     WEZ-3070   E.V. F. C. B.A.   1   C28   ESTATUS   C. CAMPATOR 50V   770     WEZ-3070   E.V. F. C. B.A.   1   C28   ESTATUS   C. CAMPATOR 50V   770     WEZ-3070   E.V. F. C. B.A.   1   C28   ESTATUS   C. CAMPATOR 50V   770     WEZ-3070   E.V. F. C. B.A.   1   C28   ESTATUS   C. CAMPATOR 50V   770     WEZ-3070   E.V. F. C. B.A.   1   C28   ESTATUS   C. CAMPATOR 50V   770     WEZ-3070   E.V. F. C. B.A.   1   C28   ESTATUS   C. CAMPATOR 50V   770     WEZ-3070   E.V. F. C. B.A.   1   C28   ESTATUS   C. CAMPATOR 50V   770     WEZ-3070   E.V. F. C. B.A.   1   C28   ESTATUS   C. CAMPATOR 50V   770     WEZ-3070   E.V. F. C. B.A.   1   C28   ESTATUS   C. CAMPATOR 50V   770     WEZ-3070   E.V. F. C. B.A.   1   C28   ESTATUS   C. CAMPATOR 50V   770     WEZ-3070   E.V. F. C. B.A.   1   C28   ESTATUS   C. CAMPATOR 50V   770     WEZ-3070   E.V. F. C. B.A.   1   C28   ESTATUS   C. CAMPATOR 50V   770     WEZ-3070   E.V. F. C. B.A.   1   C28   ESTATUS   C. CAMPATOR 50V   770     WEZ-3070   E.V. F. C. B.A.   1   C28   ESTATUS   C. CAMPATOR 50V   770     WEZ-3070   E.V. F. C. B.A.   1   C28   ESTATUS   C. CAMPATOR 50V   770     WEZ-3070   E.V. F. C. B.A.   1   C28   ESTATUS   C. CAMPATOR 50V   770     WEZ-3070   E.V. F. C. B.A.   1   C28   ESTATUS   C. CAMPATOR 50V   770     WEZ-307				+		11	+	+	+	301 371	1	,
1206   CERADISEZ   CAMACITOR 6.5.N 2   330   3	+	VED23064B	PROCESS C B A	+++		11	+		<del></del>	100 100	+-+	
WEP240158   NORDER PRICK C. B. A.   1	-	VEF 23004B	PROCESS C.B.A.	+ +		<b>₹</b> }	+-				1	
C220	-	VED22061B	ENCODED DACK C B A	+++		1	+		+		1	
VEPS80158   NTO FOCUS C.B.A.   1   C211   SEMINITIONED OF 129   O.0.10		VEP23061B	ENCODER PACK C.B.A.	1		1		<del></del>			1	
C212   RESPITEIDES   CAPACITOR   29V   10V   1				$\perp$		1			<del>!                                    </del>		1	
C13   SIZUREATINO   C14   CREMENTOR   C50   SU   C14   CELISIOSIO   C. CARNITOR   C50   SU   C15   C		VEP28015B	AUTO FOCUS C.B.A.	1		C211	<del></del>	ECUM1H1O4MD	CHIP	50V 0.1U	1	
C214   CAMPLINESOID   20   20   279						C212		ECSF1EE106	T.CAPACITOR	25V 10U	1	
C215   EXMIREZ/OUR GUIP   259   279						C213		ECUX1E473FN	CHIP	25V 0.047U	1	
C16				LI		C214		ECEA1HKS010	E.CAPACITOR	50V 1U	1	
C16						C215	T	ECUX1E270JCM	CHIP	25V 27P	1	
C17			E.V.F. SECTION	<u> </u>			+		<del> </del>		1	
VERYTOJAGB   E.V. F. C. B. A.   1   C219   EXINIEZZOJC CHIP   25V 77P				<del>     </del>			+				1	
C219   COMMERCIAN   C220   CENTRESTORY   C220   CENTRESTORY   C221   C222   C		VEP27036B	E.V.F. C.B.A.	1		-	+		1		1	
C220   ESSPECIAZIÓ INTENTALM 160 477		-2.2,0300		+ -+		·	+-				-	
C221   EXILIEZZOUG CHIP   25V 27P		-		+		1	+		<del> </del>		1	
VEPO6478A   MAIN C.B.A.	-+	-		+		1	<b>-</b>				1	
VEPO6478A   MAIN C.B.A.   C224   EGUALEGAZEN CHIP   SOV   68COP				1			+				1	
VEPO6478A   MAIN C.B.A.   1   C224   ECOXIE973RN   C91F   25V 0.047U			VIR SECTION	1							1	
POMER_SERVO_AIDIO_SYSTEM   C225   ECUNEIO4ZFF CHIF   25V 0.10				$\perp \perp$		C223	Щ.	ECUX1H682KBN	CHIP	50V 6800P	1	
CONTROL, SUB VIDEO    C226   ECST VEAT5   T. CAPACITOR   35V   4.7U		VEP06478A	MAIN C.B.A.	1		C224	1	ECUX1E473FN	CHI P	25V 0.047U	1	
C227   ECSPIAEIO6   TAYTRIUM   10V   10U			(POWER, SERVO, AUDIO, SYSTEM			C225		ECUX1E104ZFN	CHIP	25V 0.1U	1	
VEPO6486A   SUB SYSTEMONTROL C.B.A.   1   C228   ECSP1EEIOS   C.CAPACITOR   25V   10U			CONTROL, SUB VIDEO)			C226		ECSF1VE475	T.CAPACITOR	35V 4.7U	1	
VEPO6486A   SUB SYSTEMONTROL C.B.A.   1   C228   ECSP1EEIOS   C.CAPACITOR   25V   10U						C227		ECSF1AE106	TANTALUM	10V 10U	1	
C229   ECSPOLE476   TANTALIM   6.3V   47U		VEP06486A	SUB SYSTEMCONTROL C.B.A.	1		1					1	
VEPO3471B   LIMINANCE/CERCMINANCE C.B.A   1				1-1		11					1	
C231   ECUXIEIO4ZEN CHIP   25V 0.1U		VED03471B	LUMINANCE/CHROMINANCE C B 2	1		11	_				$\rightarrow$	
VEPO2297A   DRIVE C.B.A.   1		VEF03471B	LOTTIVALCE/ CHROTTIVALCE C.B.A	1 1		11	+				1	
VEPOS112B   SP   HEAD AMP C.B.A.   1   C236   EGUXIEIO5JCM   CHIP   25V   0.1U				1	<del> </del>	4 <del> </del>	+				1	
VEPO5112B   SP HEAD AMP C.B.A.   1   C236   ECUX1E105JCM   CHIP   25V   0.1U		VEPO2297A	DRIVE C.B.A.	1	<del> </del>	C232		ECUX1E1042FN	CHIP	25V 0.1U	1	
C237   ECIXIEIO42PN CHIP   25V   0.1U						C233		ECUX1E104ZFN	CHIP	25V 0.1U	1	
VEPO5115B   LP HEAD AMP C.B.A.   1   C238   ECUXIE330JCM   CHIP   25V   33P		VEP05112B	SP HEAD AMP C.B.A.	1		C236		ECUX1E105JCM	CHIP	25V 1U	1	
C239   ECUXIE330JON   CHIP   25V   33P						C237		ECUX1E104ZFN	CHIP	25V 0.1U	1	
VEPO6444B   VTR OPERATION C. B. A.   1   C240   ECUXIE330JCM   CHIP   25V   33P		VEP05115B	LP HEAD AMP C.B.A.	1		C238		ECUX1E330JCM	СНІР	25V 33P	1	
C241   ECUNIEIOLICM CHIP   25V   100P						C239	T	ECUX1E330JCM	CHIP	25V 33P	1	
C241   ECUXIEIOIJCM   CHIP   25V   100P		VEP06444B	VTR OPERATION C.B.A.	1		11	+	-	CHIP		1	
VEPO6445A   CAMERA OPERATION C.B.A.   1						1	+				1	
C243   ECUXIE1042FN CHIP   25V 0.1U		VEP06445A	CAMERA OPERATION C B A	1		11	-				1	
VEX.3453   ZOOM SW.C.B.A.   1		VLI 0041311	,	+ +		1)	+				+	
C245   ECUXIE1042FN CHIP   25V   0.1U		1 TTY ( ) 4 F 2	GOOM GIL G. D. X			<del>                                     </del>			<del></del>		1	
VEK3454   BACK UP C.B.A.   1   C246   ECUXIE105JCM CHIP   25V   1U		VEK3453	ZUCM SW C.B.A.	1			+				1	
C247   ECEAICKK100   E. CAPACITOR   16V   10U		_		$\perp \perp$		4	+				1	
VEK3455   TAKEUP REEL SENSOR C.B.A.   1   C248   ECUX1E1042FN CHIP   25V 0.1U		VEK3454	BACK UP C.B.A.	1		C246	1	ECUX1E105JCM	CHIP	25V 1U	1	
C249   ECUXIE104ZFN CHIP   25V 0.1U	T			LΤ		C247	$\perp^{-}$	ECEA1CKK100	E.CAPACITOR	16V 10U	1	
C249   ECUX1E1042FN CHIP   25V   0.1U		VEK3455	TAKEUP REEL SENSOR C.B.A.	1		C248		ECUX1E1042FN	CHIP	25V 0.1U	1	
VXA3107   CASSETTE DOWN C.B.A.   1						4	+		<del> </del>		1	
C251   ECUXIE330JCM   CHIP   25V   33P		VXA3107	CASSETTE DOWN C.B.A.	1		<b> </b>	+				1	
VEX3345   STATOR C.B.A.   1	-+	+	+	1		1	+	<del></del>	<del> </del>		1	
DIODES  D202 MA141A DIODE  D204 MA110 DIODE  D205 MA110 DIODE  D207 MA159 DIODE  D209 MA10 DIODE  D209 MA110 DIODE  D210 MA141K DIODE  D210 MA141K DIODE  FILTER  FILOI ELB5BO1O FILTER	-+	VEN 33 VE	STATOR C B A	+++		1	-				1	
D202   MA141A   DIODE		CFCCV3A	OTATOR C.B.A.	++		C232	+	LCOAIE104ZFN	CNIF	25V 0.10	1	
D202   MA141A   DIODE				+		<b></b>	+		ļ			
D202   MA141A   DIODE				$\vdash$		11	+		ļ		$\vdash$	
D202   MA141A DIODE				$\perp \perp$			<b>_</b>				$\vdash$	
D204 MA110 DIODE						1	ļ		DIODES			
D205 MA110 DIODE						D202		MA141A	DIODE		1	
D205 MA110 DIODE						D204	T	MA110	DIODE		1	
D207 MA159 DIODE				TT		1	+-		<del> </del>		1	
D209   MA110   DIODE			<del> </del>	+		<b></b>					1	
D210 MA141K DIODE  FILTER  FL201 ELB5B010 FILTER	-+		<del> </del>	+-+	<del></del>	<del> </del>	+				1	
FILTER FL201 ELB5B010 FILTER		- +		+		1 ———						
FL201 ELB5B010 FILTER						DZ10	<b>-</b>	MA141K	PTODE	<del> </del>	1	
FL201 ELB5B010 FILTER				$\perp \perp$		<b>I</b>	<b>.</b>					
FL201 ELB5B010 FILTER				$\perp \perp$		<u> </u>	<u> </u>					
				LT					FILTER		$\sqcup \bot$	
■ VEP22073A SENSOR C. B. A.						FL201	$\bot$	ELB5B010	FILTER		1	
		VEP22073A	SENSOR C.B.A.	1 1								
		-		1 1		11						
	+	-+	+	++		1	1					
		1	1	1		Ш	1		J		1	
						1 ————	7					

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Ref.No.	Par	t No.	Part Name			Pcs	Remarks	Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			INTEGRATED C	CIRCUITS		↓_					VARIABLE RESISTORS	1_	
IC201	MN530:	15XBM	IC			1		VR201		EVM7YSX00B25	V.RESISTOR 200K	1	
IC202	UPD61	47G	IC			1		VR202	_	EVM7YSWOOB54	V.RESISTOR 50K	1	
						ļ							
_													
			COILS										
1.201	VLQ01	63K150	∞1L		15UH	1							
L202	VLQ01	87K150	∞1L		15UH	1							
L203	VLQ01	B7K150	∞1L		15UH	1			1		CRISTAL OSCILLATOR	1	
L204	VLQ01	63K150	∞1r		15UH	1		X201		VSX0240	CRISTAL OSCILLATOR	1	
L205	VLQ01	6 <b>3K1</b> 50	∞1L		15UH	1						1	
L206	VLQ01	63K150	∞1L		15UH	1						<u> </u>	1
1207	VLQ018	87K150	∞1L		15UH	1			1			$\vdash$	
1.210	VLQ02		∞1L			1		Ì		<u> </u>		<del>                                     </del>	
L211	VLQ029		ΩIL			1			<b>1</b>	VEP22074A	C.D.S. PACK C.B.A.	$\vdash$	
L212	VLQ029	91	COIL			1			Ι-			t	<del>                                     </del>
*						1							
												├	
			TARNSISTORS					-	╁			-	
Q201	2SD181		TRANSISTOR			1		ļ				-	<del></del>
Q202	2SD181		TRANSISTOR			1			$\vdash$				
Q202 Q203	2SD181		TRANSISTOR			1			$\vdash$	-			
Q203 Q204			TRANSISTOR			_		<b> </b>		<del> </del>			
	2SC393					1		<del></del>	$\vdash$			<u> </u>	
Q205	2SA161		TRANSISTOR			1		-	<b>-</b>	ļ <u></u>		-	
Q206	250417		TRANSISTOR			1		L	-	<u></u>	CAPACITORS	-	
Q207	2SA161		TRANSISTOR			1		C501	+	ECUX1E180JCM	CHIP 25V 18P	1	
Q208	2SC417		TRANSISTOR			1		C502	-	ECUX1E473FN	CHIP 25V 0.047U	1	
Q2O9	2SA161	10	TRANSISTOR			1		C503		ECUX1E180JCM	CHIP 25V 18P	1	
Q210	2SC417	76	TRANSISTOR			1		C504		ECST1DC685Z	T.CAPACITOR 20V 6.8U	1	
0211	2SC393	30	TRANSISTOR			1		C506		ECUX1E180JCM	CHIP 25V 18P	1	
								C507		ECST1AC106Z	T.CAPACITOR 10V 10U	1	
			RESISTORS		•						INTEGRATED CIRCUIT		
R201	ERJ3G1	EYJ331	CHIP	1/20W	330	1		1C501		AN2010S	IC	1	
R202	ERJ3GI	EYJ331	CHIP	1/20W	330	1			t				
R2O3	ERJ3GI	EYJ105	CHIP	1/20W	1U	1							
R204	ERJ3GI		СНІР	1/20W	1K	1			· · · ·		CONNECTOR		
R205	ERJ3GI		CHIP	1/20W	33K	1		PK501	-	VJRO365	CONNECTOR	1	
R206	ERJ3GI		CHIP	1/20W	18K	1		111501		VUNU303	COMMENTAL	-	
R207	ERJ3GI		CHIP	1/20W	10K	1		}					
R208	ERJ3GI		CHIP	1/20W	470	1							
R209						1		1				_	
R210	ERJ3GI		CHIP	1/20W	47K	+			-		RESISTOR	_	<del>                                     </del>
	ERJ3GI		CHIP	1/20W	18K	1		R501	-	ERJ3GEYJ102	CHIP 1/20W 1K	1	
R211	ERJ3GI		CHIP	1/20W	4.7K	1			-				
R212	ERJ3GI		CHIP	1/20W	33	1			<u> </u>				
R213	ERJ3GI		CHIP	1/20W	680	1							
R214	ERJ3GI		CHIP	1/20W	680	1							
R215			CHIP	1/20W	27K	1			•	VEP23064B	PROCESS C.B.A.		
3216	<del></del>	-	CHIP	1/20W	10K	1			L				
R217	ERJ 3G1		CHIP	1/20W	100	1							
R218	ERJ3GI	EYJ472	CHIP	1/20W	4.7K	1							
R219	ERJ3GI	EYJ102	CHIP	1/20W	1K	1							
R220	ERJ3GI	EYJ562	CHIP	1/20W	5.6K	1							
R221	ERJ3GI	EYJ101	CHIP	1/20W	100	1							
3222	ERJ3G	YJ123	CHIP	1/20W	12K	1							
2223	ERJ3G		CHIP	1/20W	220	1							
224	ERJ3GI		CHIP	1/20W	220	1					CONNECTORS		
1225	ERJ 3GI		CHIP	1/20W	1K	1		B301	$\vdash$	VJS2227	CONNECTOR	1	
2226	ERJ3GI		СНІР	1/20W	1K	1		B302		VJS1948	CONNECTOR	1	
3227			CHIP	1/20W	2.7K	1		FP301		VJS2137	CONNECTOR	1	
1228	ERJ3GI		CHIP	1/20W	220	1		17501	$\vdash$	V03213/	COMMECTOR	1	
229	ERJ 3GI		CHIP	1/20W	1K	1		<b>—</b>	$\vdash$	<del></del>		-	
230				1/20W	1M	1		<b>-</b>			CADACITORS		
	ERJ3GE		CHIP					C1.01		DODAG TEG	CAPACITORS	_	
231	ERJ3GE		CHIP	1/20W	100K	1		C101	· · · · · · · · · · · · · · · · · · ·		E.CAPACITOR 6.3V 47U	1	
232	ERJ 3GE		CHIP	1/20W	100	1		C102			E.CAPACITOR 6.3V 47U	1	
233	ERJ 3GI		CHIP	1/20W	100	1		C103		ECEAOJKS470	E.CAPACITOR 6.3V 47U	1	
234	ERJ 3GI		CHIP	1/20W	2.7K	1		C104	-	ECUX1E473FN	CHIP 25V 0.047U	1	
235	ERJ 3GE		CHIP	1/20W	100K	1		C105	-	ECUX1E473FN	CHIP 25V 0.047U	1	
236	ERJ 3GE	YJ270	CHIP	1/20W	27	1		C106		ECUX1E473FN	CHIP 25V 0.047U	1	
						$\Box$		C107		ECUM1C224ZFN	CHIP 16V 0.22U	1	
								C108	_ 7	ECUM1C224ZFN	CHIP 16V 0.22U	1	
								C109		ECST1CY105Z	T.CAPACITOR 16V 1U	1	
								C110			E.CAPACITOR 6.3V 33U	1	
						$\vdash$		C111	$\rightarrow$	ECUX1E1032FM		1	
7	1					$\vdash$							

Ref.No.	Part No.	Part Name 8	& Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C112	ECST1CY105Z	T. CAPACITOR	16V 1U	1		C382	ECUX1E101JCM	CHIP 25V 100P	1	
C113	ECUX1E104ZFN	CHIP	25V 0.1U	1		C383	ECUX1E101JCM	CHIP 25V 100P	1	
C114	ECUX1E104ZFN	CHIP	25V 0.1U	1		C384	ECUX1E104ZFN	CHIP 25V 0.1U	1	
C115	ECUM1H821KBV	CHIP	50V 820P	1						
C116	ECUM1H821KBV	CHIP	50V 820P	1					1	
C117	ECUM1H821KBV	CHIP	50V 820P	1		7101		DIODES	<del> </del>	
C118 C119	ECEA1AKK100 ECEA1ASN100	E. CAPACITOR E. CAPACITOR	10V 10U 10V 10U	1		D101 D104	MA713 MA728	DIODE	1	
C120	ECEATASN100 ECEATASN100	E. CAPACITOR	10V 10U	1		D104	MA713	DIODE	1	
C123	ECEA1CKS100	E. CAPACITOR	16V 10U	1		D301	MA141WA	DIODE	1	
C124	ECST1CY105Z	T. CAPACITOR	16V 1U	1		D302	MA3047M	DIODE	1	
C125	ECEA1CKS100	E. CAPACITOR	16V 10U	1		D3O3	MA728	DIODE	1	
C126	ECKF1H102KB	C. CAPACITOR	50V 1000P	1		D304	MA141K	DIODE	1	
C301	ECUX1E104ZFN	CHIP	25V 0.1U	1		D305	MA141WK	DIODE	1	
C302	ECUX1E105JCM	CHIP	25V 1U	1		D306	MA141K	DIODE	1	
C303	ECSF1CE105	TANTALUM	16V 1U	1		D308	MA728	DIODE	1	
C304	ECEA1CKS100	E. CAPACITOR	16V 10U	1					_	
C305 C306	ECEA1CSN4R7 ECEA1AKK100	E. CAPACITOR E. CAPACITOR	16V 4.7U 10V 10U	1		-		EII TED C		,
C307	ECEA1VSN2R2	E. CAPACITOR	35V 2.2U	1		FL301	ELB5B009	FILTER	1	
C308		CHIP	25V 1000P	1		FL303	ELB4A002	FILTER	1	
C309	ECSF1CE106	TANTALUM	16V 10U	1	,	FL304	ELB4A002	FILTER	1	
C310	ECUX1E104ZFN	CHIP	25V 0.1U	1		FL305	VLF0610	FILTER	1	
C311	ECUX1E104ZFN	CHIP	25V 0.1U	1		FL306	ELB4E004	FILTER	1	
C312	ECUM1H561JCV	CHIP	50V 560P	1		FL307	ELB4A003	FILTER	1	
C313		CHIP	16V 0.22U	1		FL309	ELB4B003	FILTER	1	
C314	ECUX1E1032FM	CHIP	25V 0.01U	1		FL310	ELB4B001	FILTER	1	
C315	ECUM1C224ZFN ECEA1CKK100	CHIP E. CAPACITOR	16V 0.22U 16V 10U	1		FL311	ELB4B002	FILTER CONNECTOR	1	
C319	ECUX1E473FN	CHIP	25V 0.047U	1		FP101	VJS2282	CONNECTOR	1	
C320	ECUX1E473FN	CHIP	25V 0.047U	1		<b> </b>				
C321	ECUX1E103ZFM	CHIP	25V 0.01U	1		h		INTEGRATED CIRCUITS		
C322	ECUX1E103ZFM	CHIP	25V 0.01U	1		IC101	AN1324NS	IC	1	
C323	ECUX1E473FN	CHIP	25V 0.047U	1		IC102	AN1324NS	IC	1	
C324	ECUX1E473FN	CHIP	25V 0.047U	1		IC103	AN1358S	IC	1	
C325	ECUX1E1032FM	CHIP	25V 0.01U	1		IC104	AN1358S	IC	1	
C326	ECUM1C224ZFN	CHIP	16V 0.22U	1		IC105		IC	1	
C327	ECUX1E104ZFN	CHIP	25V 0.1U 25V 0.047U	1		IC301	AN1358S	IC	1	111
C329	ECUX1E473FN ECSF1AE226	T. CAPACITOR	25V 0.0470 10V 22U	1		IC302 IC303	AN1358S AN1358S	IC	1	
C330	ECSFOJE476	TANTALUM	6.3V 47U	1		IC304	AN2153S	IC	1	
C331	ECUM1 C224Z FN	СНІР	16V 0.22U	1		IC305	MN4052BS	IC	1	
C335	ECUX1E104ZFN	CHIP	25V 0.1U	1		IC306	AN1324NS	IC	1	
C336	ECUX1E104ZFN	CHIP	25V 0.1U	1		IC307	UPD9313GB	IC	1	
C337	ECUX1E104ZFN	CHIP	25V 0.1U	1		IC308	VCR0200	IC	1	
C338	ECUX1E104ZFN	CHIP	25V 0.1U	1		IC309	MC08181A	IC	1	
C340	ECEA1CKS100	E. CAPACITOR	16V 10U	1		IC310	VCR0199	IC	1	
C341 C342		E. CAPACITOR	25V 10U 10V 47U	1		<b> </b>	+			
C342	ECSF1AE476 ECSF1AE106	TANTALUM	10V 10U	1				COILS		
C345	ECST1CY105Z	T. CAPACITOR	16V 1U	1		1.301	VLQ0163K150	COIL 15UH	1	
C346	ECUX1E331KBM		25V 330P	1		L302	VLQ0163K150	COIL 15UH	1	
C347	ECEA1CU101	E. CAPACITOR	16V 100U	1		1.303	VLQ0163K150	COIL 15UH	1	
C351	ECSF1AE106	TANTALUM	10V 10U	1		1.304	VLQ0163K150	COIL 15UH	1	
C352	ECUX1E105JCM	CHIP	25V 1M	1		1306	VI.Q0163K330	COIL 33UH	1	
C353	ECSF1AE106	TANTALUM	10V 10U	1		L308	VLQ0163K150	COIL 15UH	1	
C354	ECSF1CE106	TANTALUM	16V 10U	1		L311	VLQ0163K150	COIL 15UH	1	
C355	ECST1AY225Z	T. CAPACITOR	10V 2.2U	1		L312	VLQ0163K150	COIL 15UH	1	
C356	ECST1AY225Z	T.CAPACITOR	10V 2.2U	1		L313	VLQ0163K150	COIL 15UH	1	
C357 C358	ECUX1E104ZFN ECUX1E104ZFN		25V 0.1U	1		L315	VLQ0291	COIL	1	
C359	ECUX1E104ZFN ECUX1E104ZFN		25V 0.1U	1		<del> </del>	1		-	
C360	ECEAOJKS470	E. CAPACITOR	6.3V 47U	1			+	TRANSI STORS		
C361	ECUX1E104ZFN	CHIP	25V 0.1U	1		Q301	2SD1819	TRANSISTOR	1	
C362	ECUX1E101JCM		25V 100P	1		Q302	2SD1819	TRANSISTOR	1	
C363	ECUM1H151JCV	CHIP	50V 150P	1		Q303	2SD1819	TRANSISTOR	1	
C370	ECUX1 E1 02KBM	CHIP	25V 1000P	1		Q304	2SB1218	TRANSISTOR	1	
C371	ECUX1E103ZFM		25V 0.01U	1		Q305	2SB1218	TRANSISTOR	1	
C372	ECUX1E103ZFM	-	25V 0.01U	1		Q306	2SB1218	TRANSISTOR	1	
C373	ECUX1E101JCM		25V 100P	1		Q307	2SD1819	TRANSISTOR	1	
C376	ECSF1AE685	T. CAPACITOR	10V 6.8U	1		Q308	2SB1218	TRANSISTOR	1	
C377	ECSF1AE685	T. CAPACITOR	10V 6.8U	1		Q311	2SD1819	TRANSISTOR	1	
C378	ECUX1E101JCM	+	25V 100P 25V 100P	1		Q314 Q315	2SD1819 2SD1819	TRANSI STOR TRANSI STOR	1	
C381	ECUX1E101JCM ECUX1E101JCM	<del> </del>	25V 100P	1		Q316	2SC3931	TRANSISTOR TRANSISTOR	1	
	ECOVIETOINA	M111	230 1002	+-			1			
				+					-	
		-								

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Ref.No.		Part No. 2SB1218	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Descr		Pcs	<del>                                     </del>
Q318 Q319		2SB1218 2SB1219	TRANSISTOR	1		R158	ERJ3GEYJ682	CHIP 1/20W	6.8K	1	
Q320		2SD1819	TRANSISTOR TRANSISTOR	1		R160 R161	ERJ3GEYJ334 ERJ3GEYJ182	CHIP 1/20W CHIP 1/20W	330K	1	
Q320 Q321	-	2SD1819	TRANSISTOR	1		R162	ERJ3GEYJ273	CHIP 1/20W	27K	1	
Q322	_	2SB1219	TRANSISTOR	1		R198	ERJ3GEYJ562	CHIP 1/20W	5.6K	1	
Q323		2SD874	TRANSISTOR	1		R302	ERJ3GEYJ273	CHIP 1/20W	27K	1	
Q324		2SD1819	TRANSISTOR	1		R304	ERJ3GEYJ104	CHIP 1/20W	100K	1	
Q325	-	2SD1819	TRANSISTOR	1		R306	ERJ3GEYJ823	CHIP 1/20W	82K	1	
Q327	-	2SD1819	TRANSISTOR	1		R307	ERJ3GEYJ392	CHIP 1/20W	3.9K	1	
Q328	1-	2SC3931	TRANSISTOR	1		R308	ERJ3GEYJ274	CHIP 1/20W	270K	1	
Q330		2SD1819	TRANSISTOR	1		R309	ERJ3GEYJ562	CHIP 1/20W	5.6K	1	
Q331		2SB970	TRANSISTOR	1		R310	ERJ3GEYJ105	CHIP 1/20W	1M	1	
Q332		2SD1819	TRANSISTOR	1		R311	ERJ3GEYJ123	CHIP 1/20W	12K	1	
Q339		2SD1819	TRANSISTOR	1		R312	ERJ3GEYJ563	CHIP 1/20W	56K	1	
Q340		2SK316	TRANSISTOR	1		R313	ERJ3GEYJ472	CHIP 1/20W	4.7K	1	
Q344		2SB1218	TRANSISTOR	1		R314	ERJ3GEYJ823	CHIP 1/20W	82K	1	
Q345		2SD1819	TRANSISTOR	1	_	R315	ERJ3GEYJ152	CHIP 1/20W	1.5K	1	
Q346		2SB1218	TRANSISTOR	1		R316	ERJ3GEYJ104	CHIP 1/20W	100K	1	
Q347		2SB1218	TRANSISTOR	1		R317	ERJ3GEYJ222	CHIP 1/20W	2.2K	1	
Q348		2SK316	TRANSISTOR	1		R318	ERJ3GEYJ473	CHIP 1/20W	47K	1	
Q350	_	2SB1218	TRANSISTOR	1		R319	ERJ3GEYJ103	CHIP 1/20W	10K	1	
Q351	L_	2SD1819	TRANSISTOR	1		R320	ERJ3GEYJ103	CHIP 1/20W	10K	1	
Q353	ļ	2SC3931	TRANSISTOR	1		R321	ERJ3GEYJ103	CHIP 1/20W	10K	1	
QR302	<u> </u>	UN5215	TRANSISTOR-RESISTOR	1		R322	ERJ3GEYJ103	CHIP 1/20W	10K	1	
	-			$\vdash$		R323	ERJ3GEYJ473	CHIP 1/20W	47K	1	
						R324	ERJ3GEYJ562	CHIP 1/20W	5.6K	1	
	-			<del> </del>		R325	ERJ3GEYJ562	CHIP 1/20W	5.6K	1	
	-	<u> </u>	DECICODE	-		R326	ERJ3GEYJ104	CHIP 1/20W	100K	1	
R101		TD 1200011564	RESISTORS	<b>.</b>		R327	ERJ3GEYJ154	CHIP 1/20W	150K	1	
R102	-	ERJ3GEYJ561 ERJ3GEYJ561	CHIP 1/20W 560	1		R328	ERJ3GEYJ123	CHIP 1/20W	12K	1	<u> </u>
R103	$\vdash$	ERJ3GEYJ682	CHIP 1/20W 560 CHIP 1/20W 6.8K	1		R329 R330	ERJ3GEYJ332	CHIP 1/20W	3.3K	1	<u> </u>
R104	-	ERJ3GEYJ153	CHIP 1/20W 6.5K	1		R331	ERJ3GEYJ183 ERJ3GEYJ562	CHIP 1/20W CHIP 1/20W	18K 5.6K	1	
R105		ERJ3GEYJ682	CHIP 1/20W 15K	1		R332	ERJ3GEYJ102	CHIP 1/20W	1K	1	
R107	_	ERJ3GEYJ103	CHIP 1/20W 10K	1		R333	ERJ3GEYJ472	CHIP 1/20W	4.7K	1	
R109		ERJ3GEYJ153	CHIP 1/20W 15K	1		R334	ERJ3GEYJ102	CHIP 1/20W	1K	1	
R110		ERJ3GEYJ333	CHIP 1/20W 33K	1		R335	ERJ3GEYJ153	CHIP 1/20W	15K	1	
R111		ERJ3GEYJ333	CHIP 1/20W 33K	1		R336	ERJ3GEYJ822	CHIP 1/20W	8.2K	1	<del></del>
R112		ERJ3GEYJ333	CHIP 1/20W 33K	1		R337	ERJ3GEYJ182	CHIP 1/20W	1.8K	1	<del></del>
R113		ERJ3GEYJ333	CHIP 1/20W 33K	1		R338	ERJ3GEYJ103	CHIP 1/20W	10K	1	<u> </u>
R114		ERJ3GEYJ103	CHIP 1/20W 10K	1		R339	ERJ3GEYJ223	CHIP 1/20W	22K	1	
R116	_	ERJ3GEYJ102	CHIP 1/20W 1K	1		R340	ERJ3GEYJ223	CHIP 1/20W	22K	1	
R117	_	ERJ3GEYJ153	CHIP 1/20W 15K	1		R341	ERJ3GEYJ562	CHIP 1/20W	5.6K	1	
R118		ERJ3GEYJ223	CHIP 1/20W 22K	1		R342	ERJ3GEYJ103	CHIP 1/20W	10K	1	
R119		ERJ3GEYJ822	CHIP 1/20W 8.2K	1		R343	ERJ3GEYJ103	CHIP 1/20W	10K	1	
R120		ERJ3GEYJ470	CHIP 1/20W 47	1		R346	ERJ3GEYJ152	CHIP 1/20W	1.5K	1	
R121		ERJ3GEYJ823	CHIP 1/20W 82K	1		R347	ERJ3GEYJ393	CHIP 1/20W	39K	1	
R122		ERJ3GEYJ223	CHIP 1/20W 22K	1		R348	ERJ3GEYJ183	CHIP 1/20W	18K	1	
R123		ERJ3GEYJ123	CHIP 1/20W 12K	1		R349	ERJ3GEYJ332	CHIP 1/20W	3.3K	1	
R124		ERJ3GEYJ103	CHIP 1/20W 10K	1		R350	ERJ3GEYJ183	CHIP 1/20W	18K	1	
R125		ERJ3GEYJ103	CHIP 1/20W 10K	1		R351	ERJ3GEYJ103	CHIP 1/20W	10K	1	
R126	L	ERJ3GEYJ103	CHIP 1/20W 10K	1		R352	ERJ3GEYJ103	CHIP 1/20W	10K	1	
R127	ļ	ERJ3GEYJ104	CHIP 1/20W 100K	1		R353	ERJ3GEYJ103	CHIP 1/20W	10K	1	
R128		ERJ3GEYJ104	CHIP 1/20W 100K	1		R354	ERJ3GEYJ102	CHIP 1/20W	1K	1	
R129	_	ERJ3GEYJ104	CHIP 1/20W 100K	1		R355	ERJ3GEYJ224	CHIP 1/20W	220K	1	
R130		ERJ3GEYJ104	CHIP 1/20W 100K	1		R356	ERJ3GEYJ824	CHIP 1/20W	820K	1	
R131	<u></u>	ERJ3GEYJ224	CHIP 1/20W 220K	1		R357	ERJ3GEYJ103	CHIP 1/20W	10K	1	
R132	<u> </u>	ERJ3GEYJ104	CHIP 1/20W 100K	1	<del></del>	R358	ERJ3GEYJ183	CHIP 1/20W	18K	1	
R133	<u> </u>	ERJ3GEYJ224	CHIP 1/20W 220K	1		R359	ERJ3GEYJ153	CHIP 1/20W	15K	1	
R134	<u>_</u>	ERJ3GEYJ123	CHIP 1/20W 12K	1		R362	ERJ3GEYJ472	CHIP 1/20W	4.7K	1	
R143	<u> </u>	ERJ3GEYJ333	CHIP 1/20W 33K	1		R363	ERJ3GEYJ102	CHIP 1/20W	1K	1	<u> </u>
R144	L_	ERJ3GEYJ682	CHIP 1/20W 6.8K	1		R366	ERJ3GEYJ273	CHIP 1/20W	27K	1	
R145	<del> </del>	ERJ3GEYJ102	CHIP 1/20W 1K	1		R367	ERJ3GEYJ273	CHIP 1/20W	27K	1	
R146	<u> </u>	ERJ3GEYJ102	CHIP 1/20W 1K	1		R368	ERJ3GEYJ273	CHIP 1/20W	27K	1	
R147	<u> </u>	ERJ3GEYJ562	CHIP 1/20W 5.6K	1		R371	ERJ3GEYJ102	CHIP 1/20W	1K	1	
R148	<u> </u>	ERJ3GEYJ102	CHIP 1/20W 1K	1		R372	ERJ6GEYK106	CHIP 1/16W	10M	1	
R149	<u> </u>	ERJ3GEYJ183	CHIP 1/20W 18K	1		R373	ERJ3GEYJ563	CHIP 1/20W	56K	1	ļ
R150	<u> </u>	ERJ3GEYJ102	CHIP 1/20W 1K	1		R374	ERJ3GEYJ274	CHIP 1/20W	270K	1	
R151	<u> </u>	ERJ3GEYJ102	CHIP 1/20W 1K	1		R375	ERJ3GEYJ334	CHIP 1/20W	330K	1	<u> </u>
R152	<u> </u>	ERJ3GEYJ102	CHIP 1/20W 1K	1		R376	ERJ3GEYJ105	CHIP 1/20W	1M	1	<u> </u>
R153	<u> </u>	ERJ3GEYOROO	CHIP 1/20W 0	1		R377	ERJ3GEYJ563	CHIP 1/20W	56K	1	
R154	<u> </u>	ERJ3GEYJ393	CHIP 1/20W 39K	1		R378	ERJ3GEYJ105	CHIP 1/20W	1M	1	
R155	<del> </del>	ERJ3GEYJ183	CHIP 1/20W 18K	1	<del></del>	R379	ERJ3GEYJ334	CHIP 1/20W	330K	1	
R156	-	ERJ3GEYJ182	CHIP 1/20W 1.8K	1		R380	ERJ3GEYJ274	CHIP 1/20W	270K	1	
R157	<b>-</b> -	ERJ3GEYJ182	CHIP 1/20W 1.8K	1		R381	ERJ3GEYJ563	CHIP 1/20W	56K	1	
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R3862         ERJ361           R3863         ERJ661           R3864         ERJ361           R3865         ERJ361           R3866         ERJ361           R3867         ERJ361           R3888         ERJ361           R3990         ERJ361           R3991         ERJ361           R3992         ERJ361           R3993         ERJ361           R3994         ERJ361           R3996         ERJ361           R3997         ERJ361           R401         ERJ361           R402         ERJ361           R403         ERJ361           R404         ERJ361           R405         ERJ361           R406         ERJ361           R407         ERJ362           R408         ERJ362           R409         ERJ362           R411         ERJ362           R412         ERJ362           R411         ERJ362           R412         ERJ362           R414         ERJ362           R415         ERJ362           R416         ERJ362           R417         ERJ362	GGEYK106 GGEYJ564 GGEYJ564 GGEYJ154 GGEYJ124 GGEYJ124 GGEYJ124 GGEYJ124 GGEYJ124 GGEYJ124 GGEYJ124 GGEYJ123 GGEYJ562 GGEYJ562 GGEYJ562 GGEYJ102 GGEYJ102 GGEYJ102 GGEYJ102 GGEYJ103	Part Name & Description CHIP 1/20W 56K CHIP 1/20W 150K CHIP 1/20W 150K CHIP 1/20W 120K CHIP 1/20W 33K CHIP 1/20W 33K CHIP 1/20W 5.6K CHIP 1/20W 150K CHIP 1/20W 22K CHIP 1/20W 27K CHIP 1/20W 27K CHIP 1/20W 2560 CHIP 1/20W 560C	Pcs		Ref. No. R468 R469 R471 R472 R473 R474 R476 R477 R478 R479 R480 R481 R482 R483 R485	Part No. ERJ3GEYJ333 ERJ3GEYJ392 ERJ3GEYJ222 ERJ3GEYJ332 ERJ3GEYJ564 ERJ3GEYJ562 ERJ3GEYJ562 ERJ3GEYJ223 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ563 ERJ3GEYJ333	Part Name & Description CHIP 1/20W 33K CHIP 1/20W 12K CHIP 1/20W 3.9K CHIP 1/20W 3.9K CHIP 1/20W 5.6K CHIP 1/20W 5.6K CHIP 1/20W 5.6K CHIP 1/20W 5.6K CHIP 1/20W 2.2K CHIP 1/20W 1.0K CHIP 1/20W 2.0K CHIP 1/20W 2.0K CHIP 1/20W 2.0K CHIP 1/20W 2.0K CHIP 1/20W 4.7K CHIP 1/20W 8.2K CHIP 1/20W 8.2K CHIP 1/20W 8.2K CHIP 1/20W 5.6K	Pcs 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Remarks
R384         ERJ36I           R385         ERJ36I           R386         ERJ36I           R387         ERJ36I           R388         ERJ36I           R389         ERJ36I           R390         ERJ36I           R391         ERJ36I           R392         ERJ36I           R393         ERJ36I           R394         ERJ36I           R395         ERJ36I           R396         ERJ36I           R397         ERJ36I           R399         ERJ36I           R401         ERJ36I           R402         ERJ36I           R403         ERJ36I           R404         ERJ36I           R405         ERJ36I           R406         ERJ36I           R407         ERJ36I           R408         ERJ36I           R411         ERJ36I           R412         ERJ36I           R411         ERJ36I           R412         ERJ36I           R415         ERJ36I           R416         ERJ36I           R417         ERJ36I           R420         ERJ36I           R421 <th>3GEYJ564 3GEYJ154 3GEYJ124 3GEYJ124 3GEYJ124 3GEYJ124 3GEYJ123 3GEYJ133 3GEYJ562 3GEYJ562 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ322 3GEYJ181 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ32 3GEYJ32 3GEYJ32 3GEYJ32 3GEYJ32 3GEYJ32 3GEYJ561 3GEYJ561</th> <th>CHIP 1/20W 560K CHIP 1/20W 150K CHIP 1/20W 120K CHIP 1/20W 120K CHIP 1/20W 47K CHIP 1/20W 33K CHIP 1/20W 180K CHIP 1/20W 5.6K CHIP 1/20W 5.6K CHIP 1/20W 1K CHIP 1/20W 10K CHIP 1/20W 180K CHIP 1/20W 180K CHIP 1/20W 180K CHIP 1/20W 180K CHIP 1/20W 1 180K CHIP 1/20W 0 CHIP 1/20W 1</th> <th>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</th> <th></th> <th>R471 R472 R473 R474 R476 R477 R478 R479 R480 R481 R482 R483</th> <th>ERJ3GEYJ392 ERJ3GEYJ222 ERJ3GEYJ564 ERJ3GEYJ564 ERJ3GEYJ562 ERJ3GEYJ223 ERJ3GEYJ2103 ERJ3GEYJ223 ERJ3GEYJ223 ERJ3GEYJ472 ERJ3GEYJ472 ERJ3GEYJ563</th> <th>CHIP 1/20W 3.9K CHIP 1/20W 2.2K CHIP 1/20W 3.3K CHIP 1/20W 566K CHIP 1/20W 5.6K CHIP 1/20W 3.9K CHIP 1/20W 22K CHIP 1/20W 10K CHIP 1/20W 10K CHIP 1/20W 10K CHIP 1/20W 4.7K CHIP 1/20W 8.2K</th> <th>1 1 1 1 1 1 1 1</th> <th></th>	3GEYJ564 3GEYJ154 3GEYJ124 3GEYJ124 3GEYJ124 3GEYJ124 3GEYJ123 3GEYJ133 3GEYJ562 3GEYJ562 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ322 3GEYJ181 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ32 3GEYJ32 3GEYJ32 3GEYJ32 3GEYJ32 3GEYJ32 3GEYJ561 3GEYJ561	CHIP 1/20W 560K CHIP 1/20W 150K CHIP 1/20W 120K CHIP 1/20W 120K CHIP 1/20W 47K CHIP 1/20W 33K CHIP 1/20W 180K CHIP 1/20W 5.6K CHIP 1/20W 5.6K CHIP 1/20W 1K CHIP 1/20W 10K CHIP 1/20W 180K CHIP 1/20W 180K CHIP 1/20W 180K CHIP 1/20W 180K CHIP 1/20W 1 180K CHIP 1/20W 0 CHIP 1/20W 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R471 R472 R473 R474 R476 R477 R478 R479 R480 R481 R482 R483	ERJ3GEYJ392 ERJ3GEYJ222 ERJ3GEYJ564 ERJ3GEYJ564 ERJ3GEYJ562 ERJ3GEYJ223 ERJ3GEYJ2103 ERJ3GEYJ223 ERJ3GEYJ223 ERJ3GEYJ472 ERJ3GEYJ472 ERJ3GEYJ563	CHIP 1/20W 3.9K CHIP 1/20W 2.2K CHIP 1/20W 3.3K CHIP 1/20W 566K CHIP 1/20W 5.6K CHIP 1/20W 3.9K CHIP 1/20W 22K CHIP 1/20W 10K CHIP 1/20W 10K CHIP 1/20W 10K CHIP 1/20W 4.7K CHIP 1/20W 8.2K	1 1 1 1 1 1 1 1	
R385         RU3GI           R386         RU3GI           R386         RU3GI           R387         RU3GI           R388         RU3GI           R389         RU3GI           R390         RU3GI           R391         RU3GI           R392         RU3GI           R393         RU3GI           R394         RU3GI           R395         RU3GI           R396         RU3GI           R397         RU3GI           R398         RU3GI           R399         RU3GI           R401         RU3GI           R402         RU3GI           R403         RU3GI           R404         RU3GI           R405         RU3GI           R406         RU3GI           R407         RU3GI           R410         RU3GI           R411         RU3GI           R412         RU3GI           R415         RU3GI           R416         RU3GI           R417         RU3GI           R418         RU3GI           R421         RU3GI           R422         RU3GI </td <td>3GEYJ154 3GEYJ124 3GEYJ124 3GEYJ124 3GEYJ124 3GEYJ184 3GEYJ562 3GEYJ562 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103</td> <td>CHIP 1/20W 150K CHIP 1/20W 120K CHIP 1/20W 47K CHIP 1/20W 120K CHIP 1/20W 120K CHIP 1/20W 120K CHIP 1/20W 150K CHIP 1/20W 5.6K CHIP 1/20W 5.6K CHIP 1/20W 150K CHIP 1/20W 250K CHIP 1/20W 250K</td> <td>11 11 11 11 11 11 11 11 11 11 11 11 11</td> <td></td> <td>R472 R473 R474 R476 R477 R478 R479 R480 R481 R482 R483</td> <td>ERJ3GEYJ222 ERJ3GEYJ332 ERJ3GEYJ564 ERJ3GEYJ562 ERJ3GEYJ323 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ472 ERJ3GEYJ632 ERJ3GEYJ63</td> <td>CHIP 1/20W 2.2K CHIP 1/20W 3.3K CHIP 1/20W 560K CHIP 1/20W 5.6K CHIP 1/20W 3.9K CHIP 1/20W 22K CHIP 1/20W 10K CHIP 1/20W 10K CHIP 1/20W 4.7K CHIP 1/20W 8.2K</td> <td>1 1 1 1 1 1 1 1</td> <td></td>	3GEYJ154 3GEYJ124 3GEYJ124 3GEYJ124 3GEYJ124 3GEYJ184 3GEYJ562 3GEYJ562 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103	CHIP 1/20W 150K CHIP 1/20W 120K CHIP 1/20W 47K CHIP 1/20W 120K CHIP 1/20W 120K CHIP 1/20W 120K CHIP 1/20W 150K CHIP 1/20W 5.6K CHIP 1/20W 5.6K CHIP 1/20W 150K CHIP 1/20W 250K	11 11 11 11 11 11 11 11 11 11 11 11 11		R472 R473 R474 R476 R477 R478 R479 R480 R481 R482 R483	ERJ3GEYJ222 ERJ3GEYJ332 ERJ3GEYJ564 ERJ3GEYJ562 ERJ3GEYJ323 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ472 ERJ3GEYJ632 ERJ3GEYJ63	CHIP 1/20W 2.2K CHIP 1/20W 3.3K CHIP 1/20W 560K CHIP 1/20W 5.6K CHIP 1/20W 3.9K CHIP 1/20W 22K CHIP 1/20W 10K CHIP 1/20W 10K CHIP 1/20W 4.7K CHIP 1/20W 8.2K	1 1 1 1 1 1 1 1	
R386         RJ361           R387         RJ361           R388         RJ361           R389         RJ361           R390         RJ361           R391         RJ361           R392         RJ361           R393         RJ361           R394         RJ361           R395         RJ361           R396         RJ361           R397         RJ361           R399         RJ361           R401         RJ361           R402         RJ361           R403         RJ361           R404         RJ361           R405         RJ361           R406         RJ361           R407         RJ361           R408         RJ361           R411         RJ362           R411         RJ362           R411         RJ362           R411         RJ362           R412         RJ362           R413         RJ362           R414         RJ362           R415         RJ362           R416         RJ362           R417         RJ362           R420         RJ362 </td <td>3GEYJ124 3GEYJ473 3GEYJ124 3GEYJ124 3GEYJ133 3GEYJ162 3GEYJ162 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ102 3GEYJ101 3GEYJ681 3GEYJ681 3GEYJ681 3GEYJ332 3GEYJ332 3GEYJ323 3GEYJ323 3GEYJ323 3GEYJ323 3GEYJ561 3GEYJ561 3GEYJ561</td> <td>CHIP 1/20W 120K CHIP 1/20W 47K CHIP 1/20W 120K CHIP 1/20W 33K CHIP 1/20W 180K CHIP 1/20W 5.6K CHIP 1/20W 5.6K CHIP 1/20W 5.6K CHIP 1/20W 1K CHIP 1/20W 1K CHIP 1/20W 1K CHIP 1/20W 33K CHIP 1/20W 33K CHIP 1/20W 10K CHIP 1/20W 3.3K CHIP 1/20W 10K CHIP 1/20W 2.2K CHIP 1/20W 47K CHIP 1/20W 22K CHIP 1/20W 2560</td> <td>11 11 11 11 11 11 11 11 11 11 11 11 11</td> <td></td> <td>R473 R474 R476 R477 R478 R479 R480 R481 R482 R483</td> <td>ERJ3GEYJ332 ERJ3GEYJ564 ERJ3GEYJ562 ERJ3GEYJ392 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ63 ERJ3GEYJ653</td> <td>CHIP 1/20w 3.3K CHIP 1/20w 560K CHIP 1/20w 5.6K CHIP 1/20w 3.9K CHIP 1/20w 22K CHIP 1/20w 10K CHIP 1/20w 4.7K CHIP 1/20w 8.2K</td> <td>1 1 1 1 1 1 1</td> <td></td>	3GEYJ124 3GEYJ473 3GEYJ124 3GEYJ124 3GEYJ133 3GEYJ162 3GEYJ162 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ102 3GEYJ101 3GEYJ681 3GEYJ681 3GEYJ681 3GEYJ332 3GEYJ332 3GEYJ323 3GEYJ323 3GEYJ323 3GEYJ323 3GEYJ561 3GEYJ561 3GEYJ561	CHIP 1/20W 120K CHIP 1/20W 47K CHIP 1/20W 120K CHIP 1/20W 33K CHIP 1/20W 180K CHIP 1/20W 5.6K CHIP 1/20W 5.6K CHIP 1/20W 5.6K CHIP 1/20W 1K CHIP 1/20W 1K CHIP 1/20W 1K CHIP 1/20W 33K CHIP 1/20W 33K CHIP 1/20W 10K CHIP 1/20W 3.3K CHIP 1/20W 10K CHIP 1/20W 2.2K CHIP 1/20W 47K CHIP 1/20W 22K CHIP 1/20W 2560	11 11 11 11 11 11 11 11 11 11 11 11 11		R473 R474 R476 R477 R478 R479 R480 R481 R482 R483	ERJ3GEYJ332 ERJ3GEYJ564 ERJ3GEYJ562 ERJ3GEYJ392 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ63 ERJ3GEYJ653	CHIP 1/20w 3.3K CHIP 1/20w 560K CHIP 1/20w 5.6K CHIP 1/20w 3.9K CHIP 1/20w 22K CHIP 1/20w 10K CHIP 1/20w 4.7K CHIP 1/20w 8.2K	1 1 1 1 1 1 1	
R387         ERJ3GI           R388         ERJ3GI           R389         ERJ3GI           R390         ERJ3GI           R391         ERJ3GI           R392         ERJ3GI           R393         ERJ3GI           R394         ERJ3GI           R395         ERJ3GI           R396         ERJ3GI           R397         ERJ3GI           R399         ERJ3GI           R401         ERJ3GI           R402         ERJ3GI           R403         ERJ3GI           R404         ERJ3GI           R405         ERJ3GI           R406         ERJ3GI           R407         ERJ3GI           R408         ERJ3GI           R410         ERJ3GI           R411         ERJ3GI           R412         ERJ3GI           R411         ERJ3GI           R411         ERJ3GI           R412         ERJ3GI           R413         ERJ3GI           R414         ERJ3GI           R415         ERJ3GI           R416         ERJ3GI           R417         ERJ3GI           R420 <td>3GEYJ473 3GEYJ124 3GEYJ124 3GEYJ133 3GEYJ184 3GEYJ562 3GEYJ562 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ104 3GEYJ104 3GEYJ105 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ103 3GEYJ561 3GEYJ561 3GEYJ561 3GEYJ561</td> <td>CHIP 1/20W 47K CHIP 1/20W 120K CHIP 1/20W 33K CHIP 1/20W 180K CHIP 1/20W 5.6K CHIP 1/20W 5.6K CHIP 1/20W 15.6K CHIP 1/20W 15.6W CHIP 1/20W 22K CHIP 1/20W 25.6W CHIP 1/20W 56.0W CHIP 1/20W 56.0W CHIP 1/20W 25.6W CHIP 1/20W 25.6W CHIP 1/20W 56.0W CHIP 1/20W CHIP 1/20</td> <td>11 11 11 11 11 11 11 11 11 11 11</td> <td></td> <td>R474 R476 R477 R478 R479 R480 R481 R482 R483</td> <td>ERJ3GEYJ564 ERJ3GEYJ562 ERJ3GEYJ392 ERJ3GEYJ223 ERJ3GEYJ472 ERJ3GEYJ472 ERJ3GEYJ63</td> <td>CHIP 1/20W 560K CHIP 1/20W 5.6K CHIP 1/20W 3.9K CHIP 1/20W 22K CHIP 1/20W 10K CHIP 1/20W 4.7K CHIP 1/20W 8.2K</td> <td>1 1 1 1 1 1</td> <td></td>	3GEYJ473 3GEYJ124 3GEYJ124 3GEYJ133 3GEYJ184 3GEYJ562 3GEYJ562 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ104 3GEYJ104 3GEYJ105 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ103 3GEYJ561 3GEYJ561 3GEYJ561 3GEYJ561	CHIP 1/20W 47K CHIP 1/20W 120K CHIP 1/20W 33K CHIP 1/20W 180K CHIP 1/20W 5.6K CHIP 1/20W 5.6K CHIP 1/20W 15.6K CHIP 1/20W 15.6W CHIP 1/20W 22K CHIP 1/20W 25.6W CHIP 1/20W 56.0W CHIP 1/20W 56.0W CHIP 1/20W 25.6W CHIP 1/20W 25.6W CHIP 1/20W 56.0W CHIP 1/20W CHIP 1/20	11 11 11 11 11 11 11 11 11 11 11		R474 R476 R477 R478 R479 R480 R481 R482 R483	ERJ3GEYJ564 ERJ3GEYJ562 ERJ3GEYJ392 ERJ3GEYJ223 ERJ3GEYJ472 ERJ3GEYJ472 ERJ3GEYJ63	CHIP 1/20W 560K CHIP 1/20W 5.6K CHIP 1/20W 3.9K CHIP 1/20W 22K CHIP 1/20W 10K CHIP 1/20W 4.7K CHIP 1/20W 8.2K	1 1 1 1 1 1	
R388         ERJ36I           R389         ERJ36I           R390         ERJ36I           R391         ERJ36I           R392         ERJ36I           R393         ERJ36I           R394         ERJ36I           R395         ERJ36I           R396         ERJ36I           R397         ERJ36I           R402         ERJ36I           R403         ERJ36I           R404         ERJ36I           R405         ERJ36I           R406         ERJ36I           R407         ERJ36I           R408         ERJ36I           R410         ERJ36I           R411         ERJ36I           R412         ERJ36I           R415         ERJ36I           R416         ERJ36I           R417         ERJ36I           R418         ERJ36I           R419         ERJ36I           R420         ERJ36I           R421         ERJ36I           R422         ERJ36I           R423         ERJ36I           R424         ERJ36I           R425         ERJ36I           R426 <td>3GEYJ124 3GEYJ333 3GEYJ184 3GEYJ562 3GEYJ562 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ102 3GEYJ102 3GEYJ322 3GEYJ323 3GEYJ323 3GEYJ323 3GEYJ323 3GEYJ323 3GEYJ323 3GEYJ323 3GEYJ561 3GEYJ561 3GEYJ561</td> <td>CHIP 1/20W 120K CHIP 1/20W 33K CHIP 1/20W 180K CHIP 1/20W 5.6K CHIP 1/20W 5.6K CHIP 1/20W 5.6K CHIP 1/20W 1K CHIP 1/20W 1K CHIP 1/20W 1K CHIP 1/20W 1K CHIP 1/20W 10K CHIP 1/20W 180K CHIP 1/20W 680K CHIP 1/20W 680K CHIP 1/20W 0 CHIP 1/20W 0 CHIP 1/20W 0 CHIP 1/20W 3.3K CHIP 1/20W 3.3K</td> <td>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td></td> <td>R476 R477 R478 R479 R480 R481 R482 R483</td> <td>ERJ3GEYJ562 ERJ3GEYJ392 ERJ3GEYJ223 ERJ3GEYJ103 ERJ3GEYJ472 ERJ3GEYJ822 ERJ3GEYJ563</td> <td>CHIP 1/20W 5.6K CHIP 1/20W 3.9K CHIP 1/20W 22K CHIP 1/20W 10K CHIP 1/20W 4.7K CHIP 1/20W 8.2K</td> <td>1 1 1 1 1</td> <td></td>	3GEYJ124 3GEYJ333 3GEYJ184 3GEYJ562 3GEYJ562 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ102 3GEYJ102 3GEYJ322 3GEYJ323 3GEYJ323 3GEYJ323 3GEYJ323 3GEYJ323 3GEYJ323 3GEYJ323 3GEYJ561 3GEYJ561 3GEYJ561	CHIP 1/20W 120K CHIP 1/20W 33K CHIP 1/20W 180K CHIP 1/20W 5.6K CHIP 1/20W 5.6K CHIP 1/20W 5.6K CHIP 1/20W 1K CHIP 1/20W 1K CHIP 1/20W 1K CHIP 1/20W 1K CHIP 1/20W 10K CHIP 1/20W 180K CHIP 1/20W 680K CHIP 1/20W 680K CHIP 1/20W 0 CHIP 1/20W 0 CHIP 1/20W 0 CHIP 1/20W 3.3K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R476 R477 R478 R479 R480 R481 R482 R483	ERJ3GEYJ562 ERJ3GEYJ392 ERJ3GEYJ223 ERJ3GEYJ103 ERJ3GEYJ472 ERJ3GEYJ822 ERJ3GEYJ563	CHIP 1/20W 5.6K CHIP 1/20W 3.9K CHIP 1/20W 22K CHIP 1/20W 10K CHIP 1/20W 4.7K CHIP 1/20W 8.2K	1 1 1 1 1	
R389         ERJ3GI           R390         ERJ3GI           R391         ERJ3GI           R392         ERJ3GI           R393         ERJ3GI           R394         ERJ3GI           R395         ERJ3GI           R396         ERJ3GI           R397         ERJ3GI           R399         ERJ3GI           R401         ERJ3GI           R402         ERJ3GI           R403         ERJ3GI           R404         ERJ3GI           R405         ERJ3GI           R406         ERJ3GI           R407         ERJ3GI           R408         ERJ3GI           R410         ERJ3GI           R411         ERJ3GI           R412         ERJ3GI           R411         ERJ3GI           R412         ERJ3GI           R415         ERJ3GI           R416         ERJ3GI           R417         ERJ3GI           R418         ERJ3GI           R419         ERJ3GI           R420         ERJ3GI           R421         ERJ3GI           R422         ERJ3GI           R423 <td>3GEYJ333 3GEYJ184 3GEYJ562 3GEYJ562 3GEYJ662 3GEYJ102 3GEYJ102 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ681 3GEYJ681 3GEYJ681 3GEYJ691 3GEYJ691 3GEYJ73 3GEYJ32 3GEYJ332 3GEYJ332 3GEYJ3561 3GEYJ561 3GEYJ561</td> <td>CHIP 1/20W 33K CHIP 1/20W 180K CHIP 1/20W 5.6K CHIP 1/20W 5.6K CHIP 1/20W 5.6K CHIP 1/20W 5.6K CHIP 1/20W 1K CHIP 1/20W 1K CHIP 1/20W 1K CHIP 1/20W 10K CHIP 1/20W 10K CHIP 1/20W 10K CHIP 1/20W 10K CHIP 1/20W 180K CHIP 1/20W 680K CHIP 1/20W 680K CHIP 1/20W 0 CHIP 1/20W 0 CHIP 1/20W 1 CHIP 1/20W 1 CHIP 1/20W 3.3K CHIP 1/20W 1 CHIP 1/20W 3.3K CHIP 1/20W 22K CHIP 1/20W 2560</td> <td>1 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td></td> <td>R477 R478 R479 R480 R481 R482 R483</td> <td>ERJ3GEYJ392 ERJ3GEYJ103 ERJ3GEYJ472 ERJ3GEYJ472 ERJ3GEYJ822 ERJ3GEYJ563</td> <td>CHIP 1/20W 3.9K CHIP 1/20W 22K CHIP 1/20W 10K CHIP 1/20W 4.7K CHIP 1/20W 8.2K</td> <td>1 1 1</td> <td></td>	3GEYJ333 3GEYJ184 3GEYJ562 3GEYJ562 3GEYJ662 3GEYJ102 3GEYJ102 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ681 3GEYJ681 3GEYJ681 3GEYJ691 3GEYJ691 3GEYJ73 3GEYJ32 3GEYJ332 3GEYJ332 3GEYJ3561 3GEYJ561 3GEYJ561	CHIP 1/20W 33K CHIP 1/20W 180K CHIP 1/20W 5.6K CHIP 1/20W 5.6K CHIP 1/20W 5.6K CHIP 1/20W 5.6K CHIP 1/20W 1K CHIP 1/20W 1K CHIP 1/20W 1K CHIP 1/20W 10K CHIP 1/20W 10K CHIP 1/20W 10K CHIP 1/20W 10K CHIP 1/20W 180K CHIP 1/20W 680K CHIP 1/20W 680K CHIP 1/20W 0 CHIP 1/20W 0 CHIP 1/20W 1 CHIP 1/20W 1 CHIP 1/20W 3.3K CHIP 1/20W 1 CHIP 1/20W 3.3K CHIP 1/20W 22K CHIP 1/20W 2560	1 1 1 1 1 1 1 1 1 1 1 1 1 1		R477 R478 R479 R480 R481 R482 R483	ERJ3GEYJ392 ERJ3GEYJ103 ERJ3GEYJ472 ERJ3GEYJ472 ERJ3GEYJ822 ERJ3GEYJ563	CHIP 1/20W 3.9K CHIP 1/20W 22K CHIP 1/20W 10K CHIP 1/20W 4.7K CHIP 1/20W 8.2K	1 1 1	
R390         ERJ3GI           R391         ERJ3GI           R392         ERJ3GI           R393         ERJ3GI           R394         ERJ3GI           R395         ERJ3GI           R396         ERJ3GI           R397         ERJ3GI           R398         ERJ3GI           R399         ERJ3GI           R401         ERJ3GI           R402         ERJ3GI           R403         ERJ3GI           R404         ERJ3GI           R405         ERJ3GI           R406         ERJ3GI           R407         ERJ3GI           R409         ERJ3GI           R410         ERJ3GI           R411         ERJ3GI           R412         ERJ3GI           R413         ERJ3GI           R414         ERJ3GI           R415         ERJ3GI           R416         ERJ3GI           R417         ERJ3GI           R418         ERJ3GI           R419         ERJ3GI           R420         ERJ3GI           R421         ERJ3GI           R422         ERJ3GI           R423 <td>3GEYJ184 3GEYJ562 3GEYJ473 3GEYJ562 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ102 3GEYJ101 3GEYJ681 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103</td> <td>CHIP 1/20W 180K CHIP 1/20W 5.6K CHIP 1/20W 47K CHIP 1/20W 5.6K CHIP 1/20W 5.6K CHIP 1/20W 1K CHIP 1/20W 1K CHIP 1/20W 1K CHIP 1/20W 10K CHIP 1/20W 10K CHIP 1/20W 10K CHIP 1/20W 10K CHIP 1/20W 180K CHIP 1/20W 180K CHIP 1/20W 180K CHIP 1/20W 680K CHIP 1/20W 0 CHIP 1/20W 0 CHIP 1/20W 1 CHIP 1/20W 3.3K CHIP 1/20W 3.3K CHIP 1/20W 3.3K CHIP 1/20W 47K CHIP 1/20W 22K CHIP 1/20W 2560</td> <td>1 1 1 1 1 1 1 1 1 1 1</td> <td></td> <td>R478 R479 R480 R481 R482 R483</td> <td>ERJ3GEYJ223 ERJ3GEYJ103 ERJ3GEYJ472 ERJ3GEYJ822 ERJ3GEYJ563</td> <td>CHIP         1/20W         22K           CHIP         1/20W         10K           CHIP         1/20W         4.7K           CHIP         1/20W         8.2K</td> <td>1 1 1 1</td> <td></td>	3GEYJ184 3GEYJ562 3GEYJ473 3GEYJ562 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ102 3GEYJ101 3GEYJ681 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103	CHIP 1/20W 180K CHIP 1/20W 5.6K CHIP 1/20W 47K CHIP 1/20W 5.6K CHIP 1/20W 5.6K CHIP 1/20W 1K CHIP 1/20W 1K CHIP 1/20W 1K CHIP 1/20W 10K CHIP 1/20W 10K CHIP 1/20W 10K CHIP 1/20W 10K CHIP 1/20W 180K CHIP 1/20W 180K CHIP 1/20W 180K CHIP 1/20W 680K CHIP 1/20W 0 CHIP 1/20W 0 CHIP 1/20W 1 CHIP 1/20W 3.3K CHIP 1/20W 3.3K CHIP 1/20W 3.3K CHIP 1/20W 47K CHIP 1/20W 22K CHIP 1/20W 2560	1 1 1 1 1 1 1 1 1 1 1		R478 R479 R480 R481 R482 R483	ERJ3GEYJ223 ERJ3GEYJ103 ERJ3GEYJ472 ERJ3GEYJ822 ERJ3GEYJ563	CHIP         1/20W         22K           CHIP         1/20W         10K           CHIP         1/20W         4.7K           CHIP         1/20W         8.2K	1 1 1 1	
R392         ERJ3GI           R393         ERJ3GI           R394         ERJ3GI           R395         ERJ3GI           R396         ERJ3GI           R397         ERJ3GI           R398         ERJ3GI           R401         ERJ3GI           R402         ERJ3GI           R403         ERJ3GI           R404         ERJ3GI           R405         ERJ3GI           R406         ERJ3GI           R407         ERJ3GI           R408         ERJ3GI           R409         ERJ3GI           R410         ERJ3GI           R411         ERJ3GI           R412         ERJ3GI           R413         ERJ3GI           R414         ERJ3GI           R415         ERJ3GI           R416         ERJ3GI           R417         ERJ3GI           R418         ERJ3GI           R419         ERJ3GI           R420         ERJ3GI           R421         ERJ3GI           R422         ERJ3GI           R423         ERJ3GI           R424         ERJ3GI           R425 <td>3GEYJ473 3GEYJ562 3GEYJ102 3GEYJ102 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ181 3GEYJ681 3GEYJ681 3GEYJ682 3GEYJ332 3GEYJ332 3GEYJ332 3GEYJ473 3GEYJ561 3GEYJ561 3GEYJ561</td> <td>CHIP 1/20W 47K CHIP 1/20W 5.6K CHIP 1/20W 1K CHIP 1/20W 1K CHIP 1/20W 33K CHIP 1/20W 1OK CHIP 1/20W 1OK CHIP 1/20W 18OK CHIP 1/20W 10K CHIP 1/20W 10K CHIP 1/20W 18OK CHIP 1/20W 18OK CHIP 1/20W 68OK CHIP 1/20W 0 CHIP 1/20W 1 CHIP 1/20W 3.3K CHIP 1/20W 3.3K CHIP 1/20W 47K CHIP 1/20W 47K CHIP 1/20W 22K CHIP 1/20W 2560</td> <td>1 1 1 1 1 1 1 1 1</td> <td></td> <td>R479 R480 R481 R482 R483</td> <td>ERJ3GEYJ103 ERJ3GEYJ472 ERJ3GEYJ822 ERJ3GEYJ563</td> <td>CHIP 1/20W 10K CHIP 1/20W 4.7K CHIP 1/20W 8.2K</td> <td>1 1 1</td> <td>4,</td>	3GEYJ473 3GEYJ562 3GEYJ102 3GEYJ102 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ181 3GEYJ681 3GEYJ681 3GEYJ682 3GEYJ332 3GEYJ332 3GEYJ332 3GEYJ473 3GEYJ561 3GEYJ561 3GEYJ561	CHIP 1/20W 47K CHIP 1/20W 5.6K CHIP 1/20W 1K CHIP 1/20W 1K CHIP 1/20W 33K CHIP 1/20W 1OK CHIP 1/20W 1OK CHIP 1/20W 18OK CHIP 1/20W 10K CHIP 1/20W 10K CHIP 1/20W 18OK CHIP 1/20W 18OK CHIP 1/20W 68OK CHIP 1/20W 0 CHIP 1/20W 1 CHIP 1/20W 3.3K CHIP 1/20W 3.3K CHIP 1/20W 47K CHIP 1/20W 47K CHIP 1/20W 22K CHIP 1/20W 2560	1 1 1 1 1 1 1 1 1		R479 R480 R481 R482 R483	ERJ3GEYJ103 ERJ3GEYJ472 ERJ3GEYJ822 ERJ3GEYJ563	CHIP 1/20W 10K CHIP 1/20W 4.7K CHIP 1/20W 8.2K	1 1 1	4,
R393         ERJ3GI           R394         ERJ3GI           R395         ERJ3GI           R396         ERJ3GI           R397         ERJ3GI           R398         ERJ3GI           R399         ERJ3GI           R401         ERJ3GI           R402         ERJ3GI           R403         ERJ3GI           R404         ERJ3GI           R405         ERJ3GI           R406         ERJ3GI           R407         ERJ3GI           R408         ERJ3GI           R410         ERJ3GI           R411         ERJ3GI           R411         ERJ3GI           R411         ERJ3GI           R411         ERJ3GI           R411         ERJ3GI           R411         ERJ3GI           R412         ERJ3GI           R413         ERJ3GI           R424         ERJ3GI           R425         ERJ3GI           R426         ERJ3GI           R427         ERJ3GI           R428         ERJ3GI           R429         ERJ3GI           R430         ERJ3GI           R431 <td>3GEYJ562 3GEYJ102 3GEYJ102 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ161 3GEYJ681 3GEYJ681 3GEYJ681 3GEYJ332 3GEYJ332 3GEYJ473 3GEYJ473 3GEYJ561 3GEYJ561 3GEYJ561</td> <td>CHIP 1/20W 5.6K CHIP 1/20W 1K CHIP 1/20W 1K CHIP 1/20W 33K CHIP 1/20W 10K CHIP 1/20W 10K CHIP 1/20W 2.2K CHIP 1/20W 18OK CHIP 1/20W 18OK CHIP 1/20W 68OK CHIP 1/20W 0 CHIP 1/20W 3.3K CHIP 1/20W 3.3K CHIP 1/20W 47K CHIP 1/20W 22K CHIP 1/20W 2660</td> <td>1 1 1 1 1 1 1 1</td> <td></td> <td>R481 R482 R483</td> <td>ERJ3GEYJ822 ERJ3GEYJ563</td> <td>CHIP 1/20W 8.2K</td> <td>1</td> <td></td>	3GEYJ562 3GEYJ102 3GEYJ102 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ161 3GEYJ681 3GEYJ681 3GEYJ681 3GEYJ332 3GEYJ332 3GEYJ473 3GEYJ473 3GEYJ561 3GEYJ561 3GEYJ561	CHIP 1/20W 5.6K CHIP 1/20W 1K CHIP 1/20W 1K CHIP 1/20W 33K CHIP 1/20W 10K CHIP 1/20W 10K CHIP 1/20W 2.2K CHIP 1/20W 18OK CHIP 1/20W 18OK CHIP 1/20W 68OK CHIP 1/20W 0 CHIP 1/20W 3.3K CHIP 1/20W 3.3K CHIP 1/20W 47K CHIP 1/20W 22K CHIP 1/20W 2660	1 1 1 1 1 1 1 1		R481 R482 R483	ERJ3GEYJ822 ERJ3GEYJ563	CHIP 1/20W 8.2K	1	
R394         ERJ3GI           R395         ERJ3GI           R396         ERJ3GI           R397         ERJ3GI           R398         ERJ3GI           R399         ERJ3GI           R401         ERJ3GI           R402         ERJ3GI           R403         ERJ3GI           R404         ERJ3GI           R405         ERJ3GI           R406         ERJ3GI           R407         ERJ3GI           R408         ERJ3GI           R410         ERJ3GI           R411         ERJ3GI           R412         ERJ3GI           R413         ERJ3GI           R414         ERJ3GI           R415         ERJ3GI           R416         ERJ3GI           R417         ERJ3GI           R418         ERJ3GI           R419         ERJ3GI           R420         ERJ3GI           R421         ERJ3GI           R422         ERJ3GI           R423         ERJ3GI           R424         ERJ3GI           R425         ERJ3GI           R426         ERJ3GI           R431 <td>3GEYJ102 3GEYJ102 3GEYJ133 3GEYJ103 3GEYJ103 3GEYJ161 3GEYJ681 3GEYJ102 3GEYGROO 3GEYJ332 3GEYJ473 3GEYJ473 3GEYJ561 3GEYJ561 3GEYJ561</td> <td>CHIP 1/20W 1K CHIP 1/20W 1K CHIP 1/20W 33K CHIP 1/20W 1OK CHIP 1/20W 2.2K CHIP 1/20W 18OK CHIP 1/20W 18OK CHIP 1/20W 68OK CHIP 1/20W 1K CHIP 1/20W 0 CHIP 1/20W 3.3K CHIP 1/20W 47K CHIP 1/20W 22K CHIP 1/20W 2560</td> <td>1 1 1 1 1 1 1</td> <td></td> <td>R482 R483</td> <td>ERJ3GEYJ563</td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td>_</td> <td></td>	3GEYJ102 3GEYJ102 3GEYJ133 3GEYJ103 3GEYJ103 3GEYJ161 3GEYJ681 3GEYJ102 3GEYGROO 3GEYJ332 3GEYJ473 3GEYJ473 3GEYJ561 3GEYJ561 3GEYJ561	CHIP 1/20W 1K CHIP 1/20W 1K CHIP 1/20W 33K CHIP 1/20W 1OK CHIP 1/20W 2.2K CHIP 1/20W 18OK CHIP 1/20W 18OK CHIP 1/20W 68OK CHIP 1/20W 1K CHIP 1/20W 0 CHIP 1/20W 3.3K CHIP 1/20W 47K CHIP 1/20W 22K CHIP 1/20W 2560	1 1 1 1 1 1 1		R482 R483	ERJ3GEYJ563	· · · · · · · · · · · · · · · · · · ·	_	
R395         ERJ3GI           R396         ERJ3GI           R397         ERJ3GI           R398         ERJ3GI           R399         ERJ3GI           R401         ERJ3GI           R402         ERJ3GI           R403         ERJ3GI           R404         ERJ3GI           R405         ERJ3GI           R406         ERJ3GI           R407         ERJ3GI           R408         ERJ3GI           R410         ERJ3GI           R411         ERJ3GI           R412         ERJ3GI           R415         ERJ3GI           R416         ERJ3GI           R417         ERJ3GI           R418         ERJ3GI           R419         ERJ3GI           R420         ERJ3GI           R421         ERJ3GI           R422         ERJ3GI           R423         ERJ3GI           R424         ERJ3GI           R425         ERJ3GI           R426         ERJ3GI           R427         ERJ3GI           R430         ERJ3GI           R431         ERJ3GI           R432 <td>3GEYJ102 3GEYJ333 3GEYJ103 3GEYJ222 3GEYJ181 3GEYJ681 3GEYJ102 3GEY0R00 3GEYJ32 3GEYJ473 3GEYJ223 3GEYJ561 3GEYJ561 3GEYJ561</td> <td>CHIP 1/20W 1K CHIP 1/20W 33K CHIP 1/20W 10K CHIP 1/20W 2.2K CHIP 1/20W 180K CHIP 1/20W 690K CHIP 1/20W 0 CHIP 1/20W 0 CHIP 1/20W 3.3K CHIP 1/20W 3.3K CHIP 1/20W 47K CHIP 1/20W 22K CHIP 1/20W 2560</td> <td>1 1 1 1 1 1</td> <td></td> <td>R483</td> <td></td> <td>CHIP 1/20w 56K</td> <td></td> <td></td>	3GEYJ102 3GEYJ333 3GEYJ103 3GEYJ222 3GEYJ181 3GEYJ681 3GEYJ102 3GEY0R00 3GEYJ32 3GEYJ473 3GEYJ223 3GEYJ561 3GEYJ561 3GEYJ561	CHIP 1/20W 1K CHIP 1/20W 33K CHIP 1/20W 10K CHIP 1/20W 2.2K CHIP 1/20W 180K CHIP 1/20W 690K CHIP 1/20W 0 CHIP 1/20W 0 CHIP 1/20W 3.3K CHIP 1/20W 3.3K CHIP 1/20W 47K CHIP 1/20W 22K CHIP 1/20W 2560	1 1 1 1 1 1		R483		CHIP 1/20w 56K		
R396         ERJ3GI           R397         ERJ3GI           R398         ERJ3GI           R399         ERJ3GI           R401         ERJ3GI           R402         ERJ3GI           R403         ERJ3GI           R404         ERJ3GI           R405         ERJ3GI           R406         ERJ3GI           R407         ERJ3GI           R409         ERJ3GI           R410         ERJ3GI           R411         ERJ3GI           R412         ERJ3GI           R413         ERJ3GI           R414         ERJ3GI           R415         ERJ3GI           R416         ERJ3GI           R417         ERJ3GI           R418         ERJ3GI           R419         ERJ3GI           R420         ERJ3GI           R421         ERJ3GI           R422         ERJ3GI           R423         ERJ3GI           R424         ERJ3GI           R425         ERJ3GI           R426         ERJ3GI           R427         ERJ3GI           R431         ERJ3GI           R432 <td>3GEYJ333 3GEYJ103 3GEYJ222 3GEYJ181 3GEYJ681 3GEYJ102 3GEYJ102 3GEYJ332 3GEYJ332 3GEYJ23 3GEYJ23 3GEYJ561 3GEYJ561 3GEYJ561</td> <td>CHIP 1/20W 33K CHIP 1/20W 10K CHIP 1/20W 2.2K CHIP 1/20W 180K CHIP 1/20W 680K CHIP 1/20W 0 CHIP 1/20W 0 CHIP 1/20W 0 CHIP 1/20W 3.3K CHIP 1/20W 47K CHIP 1/20W 22K CHIP 1/20W 2560</td> <td>1 1 1 1 1</td> <td></td> <td></td> <td>ERJ3GEYJ333</td> <td></td> <td>_</td> <td></td>	3GEYJ333 3GEYJ103 3GEYJ222 3GEYJ181 3GEYJ681 3GEYJ102 3GEYJ102 3GEYJ332 3GEYJ332 3GEYJ23 3GEYJ23 3GEYJ561 3GEYJ561 3GEYJ561	CHIP 1/20W 33K CHIP 1/20W 10K CHIP 1/20W 2.2K CHIP 1/20W 180K CHIP 1/20W 680K CHIP 1/20W 0 CHIP 1/20W 0 CHIP 1/20W 0 CHIP 1/20W 3.3K CHIP 1/20W 47K CHIP 1/20W 22K CHIP 1/20W 2560	1 1 1 1 1			ERJ3GEYJ333		_	
R397         ERJ3GI           R398         ERJ3GI           R399         ERJ3GI           R401         ERJ3GI           R402         ERJ3GI           R403         ERJ3GI           R404         ERJ3GI           R405         ERJ3GI           R406         ERJ3GI           R407         ERJ3GI           R408         ERJ3GI           R410         ERJ3GI           R411         ERJ3GI           R412         ERJ3GI           R413         ERJ3GI           R414         ERJ3GI           R415         ERJ3GI           R416         ERJ3GI           R417         ERJ3GI           R418         ERJ3GI           R419         ERJ3GI           R420         ERJ3GI           R421         ERJ3GI           R422         ERJ3GI           R423         ERJ3GI           R424         ERJ3GI           R425         ERJ3GI           R426         ERJ3GI           R427         ERJ3GI           R430         ERJ3GI           R431         ERJ3GI           R433 <td>3GEYJ103 3GEYJ222 3GEYJ181 3GEYJ681 3GEYJ102 3GEYJ102 3GEYJ332 3GEYJ473 3GEYJ223 3GEYJ561 3GEYJ561 3GEYJ561</td> <td>CHIP 1/20W 10K CHIP 1/20W 2.2K CHIP 1/20W 180K CHIP 1/20W 680K CHIP 1/20W 1K CHIP 1/20W 0 CHIP 1/20W 0 CHIP 1/20W 3.3K CHIP 1/20W 47K CHIP 1/20W 22K CHIP 1/20W 22K CHIP 1/20W 560</td> <td>1 1 1 1</td> <td></td> <td>R485</td> <td></td> <td>CHIP 1/20W 33K</td> <td>1</td> <td>A</td>	3GEYJ103 3GEYJ222 3GEYJ181 3GEYJ681 3GEYJ102 3GEYJ102 3GEYJ332 3GEYJ473 3GEYJ223 3GEYJ561 3GEYJ561 3GEYJ561	CHIP 1/20W 10K CHIP 1/20W 2.2K CHIP 1/20W 180K CHIP 1/20W 680K CHIP 1/20W 1K CHIP 1/20W 0 CHIP 1/20W 0 CHIP 1/20W 3.3K CHIP 1/20W 47K CHIP 1/20W 22K CHIP 1/20W 22K CHIP 1/20W 560	1 1 1 1		R485		CHIP 1/20W 33K	1	A
R398         ERJ3GI           R399         ERJ3GI           R401         ERJ3GI           R402         ERJ3GI           R403         ERJ3GI           R404         ERJ3GI           R405         ERJ3GI           R406         ERJ3GI           R407         ERJ3GI           R408         ERJ3GI           R409         ERJ3GI           R410         ERJ3GI           R411         ERJ3GI           R412         ERJ3GI           R415         ERJ3GI           R416         ERJ3GI           R417         ERJ3GI           R418         ERJ3GI           R419         ERJ3GI           R420         ERJ3GI           R421         ERJ3GI           R422         ERJ3GI           R423         ERJ3GI           R424         ERJ3GI           R425         ERJ3GI           R426         ERJ3GI           R427         ERJ3GI           R428         ERJ3GI           R430         ERJ3GI           R431         ERJ3GI           R432         ERJ3GI           R433 <td>3GEYJ222 3GEYJ181 3GEYJ681 3GEYJ102 3GEYGROO 3GEYJ332 3GEYJ473 3GEYJ223 3GEYJ561 3GEYJ561 3GEYJ561</td> <td>CHIP 1/20W 2.2K CHIP 1/20W 180K CHIP 1/20W 680K CHIP 1/20W 1K CHIP 1/20W 0 CHIP 1/20W 3.3K CHIP 1/20W 47K CHIP 1/20W 22K CHIP 1/20W 2560</td> <td>1 1 1</td> <td></td> <td>R486</td> <td>ERJ3GEYJ222</td> <td>CHIP 1/20W 2.2K</td> <td>1</td> <td></td>	3GEYJ222 3GEYJ181 3GEYJ681 3GEYJ102 3GEYGROO 3GEYJ332 3GEYJ473 3GEYJ223 3GEYJ561 3GEYJ561 3GEYJ561	CHIP 1/20W 2.2K CHIP 1/20W 180K CHIP 1/20W 680K CHIP 1/20W 1K CHIP 1/20W 0 CHIP 1/20W 3.3K CHIP 1/20W 47K CHIP 1/20W 22K CHIP 1/20W 2560	1 1 1		R486	ERJ3GEYJ222	CHIP 1/20W 2.2K	1	
R399         ERJ3GI           R401         ERJ3GI           R402         ERJ3GI           R403         ERJ3GI           R404         ERJ3GI           R405         ERJ3GI           R406         ERJ3GI           R407         ERJ3GI           R408         ERJ3GI           R409         ERJ3GI           R410         ERJ3GI           R411         ERJ3GI           R412         ERJ3GI           R415         ERJ3GI           R416         ERJ3GI           R417         ERJ3GI           R418         ERJ3GI           R419         ERJ3GI           R420         ERJ3GI           R421         ERJ3GI           R422         ERJ3GI           R423         ERJ3GI           R424         ERJ3GI           R425         ERJ3GI           R426         ERJ3GI           R427         ERJ3GI           R428         ERJ3GI           R430         ERJ3GI           R431         ERJ3GI           R432         ERJ3GI           R433         ERJ3GI           R434 <td>3GEYJ181 3GEYJ681 3GEYJ102 3GEYOROO 3GEYJ332 3GEYJ473 3GEYJ223 3GEYJ561 3GEYJ561 3GEYJ561</td> <td>CHIP 1/20W 180K CHIP 1/20W 680K CHIP 1/20W 1K CHIP 1/20W 0 CHIP 1/20W 3.3K CHIP 1/20W 47K CHIP 1/20W 22K CHIP 1/20W 560</td> <td>1 1</td> <td><del> </del></td> <td>R487</td> <td>ERJ3GEYJ102 ERJ3GEYJ102</td> <td>CHIP 1/20W 1K CHIP 1/20W 1K</td> <td>1</td> <td></td>	3GEYJ181 3GEYJ681 3GEYJ102 3GEYOROO 3GEYJ332 3GEYJ473 3GEYJ223 3GEYJ561 3GEYJ561 3GEYJ561	CHIP 1/20W 180K CHIP 1/20W 680K CHIP 1/20W 1K CHIP 1/20W 0 CHIP 1/20W 3.3K CHIP 1/20W 47K CHIP 1/20W 22K CHIP 1/20W 560	1 1	<del> </del>	R487	ERJ3GEYJ102 ERJ3GEYJ102	CHIP 1/20W 1K CHIP 1/20W 1K	1	
R401         ERJ3G           R402         ERJ3G           R403         ERJ3G           R404         ERJ3G           R405         ERJ3G           R406         ERJ3G           R407         ERJ3G           R408         ERJ3G           R409         ERJ3G           R411         ERJ3G           R411         ERJ3G           R411         ERJ3G           R415         ERJ3G           R416         ERJ3G           R417         ERJ3G           R418         ERJ3G           R419         ERJ3G           R420         ERJ3G           R421         ERJ3G           R422         ERJ3G           R423         ERJ3G           R424         ERJ3G           R425         ERJ3G           R426         ERJ3G           R427         ERJ3G           R428         ERJ3G           R431         ERJ3G           R432         ERJ3G           R433         ERJ3G           R434         ERJ3G           R435         ERJ3G           R436         ERJ3G </td <td>3GEYJ681 3GEYJ102 3GEYOROO 3GEYJ332 3GEYJ473 3GEYJ223 3GEYJ561 3GEYJ561 3GEYJ561</td> <td>CHIP 1/20W 680K CHIP 1/20W 1K CHIP 1/20W 0 CHIP 1/20W 3.3K CHIP 1/20W 47K CHIP 1/20W 22K CHIP 1/20W 560</td> <td>1</td> <td>ı</td> <td>R490</td> <td>ERJ6GEYOROO</td> <td>CHIP 1/16W 0</td> <td>1</td> <td>******</td>	3GEYJ681 3GEYJ102 3GEYOROO 3GEYJ332 3GEYJ473 3GEYJ223 3GEYJ561 3GEYJ561 3GEYJ561	CHIP 1/20W 680K CHIP 1/20W 1K CHIP 1/20W 0 CHIP 1/20W 3.3K CHIP 1/20W 47K CHIP 1/20W 22K CHIP 1/20W 560	1	ı	R490	ERJ6GEYOROO	CHIP 1/16W 0	1	******
R403         ERJ3GI           R404         ERJ3GI           R405         ERJ3GI           R406         ERJ3GI           R407         ERJ3GI           R409         ERJ3GI           R410         ERJ3GI           R411         ERJ3GI           R412         ERJ3GI           R415         ERJ3GI           R416         ERJ3GI           R417         ERJ3GI           R418         ERJ3GI           R419         ERJ3GI           R420         ERJ3GI           R421         ERJ3GI           R422         ERJ3GI           R423         ERJ3GI           R424         ERJ3GI           R425         ERJ3GI           R426         ERJ3GI           R427         ERJ3GI           R428         ERJ3GI           R430         ERJ3GI           R431         ERJ3GI           R432         ERJ3GI           R433         ERJ3GI           R434         ERJ3GI           R435         ERJ3GI           R436         ERJ3GI           R437         ERJ3GI           R438 <td>3GEYOROO 3GEYJ332 3GEYJ473 3GEYJ223 3GEYJ561 3GEYJ561 3GEYJ103</td> <td>CHIP         1/20W         0           CHIP         1/20W         3.3K           CHIP         1/20W         47K           CHIP         1/20W         22K           CHIP         1/20W         560</td> <td>+</td> <td></td> <td>R495</td> <td>ERJ3GEYJ105</td> <td>CHIP 1/20W 1M</td> <td>1</td> <td></td>	3GEYOROO 3GEYJ332 3GEYJ473 3GEYJ223 3GEYJ561 3GEYJ561 3GEYJ103	CHIP         1/20W         0           CHIP         1/20W         3.3K           CHIP         1/20W         47K           CHIP         1/20W         22K           CHIP         1/20W         560	+		R495	ERJ3GEYJ105	CHIP 1/20W 1M	1	
R404         ERJ3G           R405         ERJ3G           R406         ERJ3G           R407         ERJ3G           R408         ERJ3G           R409         ERJ3G           R410         ERJ3G           R411         ERJ3G           R412         ERJ3G           R415         ERJ3G           R416         ERJ3G           R417         ERJ3G           R418         ERJ3G           R419         ERJ3G           R420         ERJ3G           R421         ERJ3G           R422         ERJ3G           R423         ERJ3G           R424         ERJ3G           R425         ERJ3G           R426         ERJ3G           R427         ERJ3G           R428         ERJ3G           R430         ERJ3G           R431         ERJ3G           R433         ERJ3G           R434         ERJ3G           R435         ERJ3G           R436         ERJ3G           R437         ERJ3G           R438         ERJ3G           R440         ERJ3G </td <td>3GEYJ332 3GEYJ473 3GEYJ223 3GEYJ561 3GEYJ561 3GEYJ103</td> <td>CHIP         1/20W         3.3K           CHIP         1/20W         47K           CHIP         1/20W         22K           CHIP         1/20W         560</td> <td>1</td> <td></td> <td>R496</td> <td>ERJ3GEYJ473</td> <td>CHIP 1/20W 47K</td> <td>1</td> <td></td>	3GEYJ332 3GEYJ473 3GEYJ223 3GEYJ561 3GEYJ561 3GEYJ103	CHIP         1/20W         3.3K           CHIP         1/20W         47K           CHIP         1/20W         22K           CHIP         1/20W         560	1		R496	ERJ3GEYJ473	CHIP 1/20W 47K	1	
R405         ERJ3G           R406         ERJ3G           R406         ERJ3G           R407         ERJ3G           R408         ERJ3G           R409         ERJ3G           R410         ERJ3G           R411         ERJ3G           R412         ERJ3G           R415         ERJ3G           R416         ERJ3G           R417         ERJ3G           R418         ERJ3G           R419         ERJ3G           R420         ERJ3G           R421         ERJ3G           R422         ERJ3G           R423         ERJ3G           R424         ERJ3G           R425         ERJ3G           R426         ERJ3G           R427         ERJ3G           R428         ERJ3G           R429         ERJ3G           R430         ERJ3G           R431         ERJ3G           R432         ERJ3G           R433         ERJ3G           R434         ERJ3G           R435         ERJ3G           R436         ERJ3G           R437         ERJ3G </td <td>3GEYJ473 3GEYJ223 3GEYJ561 3GEYJ561 3GEYJ103</td> <td>CHIP 1/20W 47K CHIP 1/20W 22K CHIP 1/20W 560</td> <td><math>\rightarrow</math></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	3GEYJ473 3GEYJ223 3GEYJ561 3GEYJ561 3GEYJ103	CHIP 1/20W 47K CHIP 1/20W 22K CHIP 1/20W 560	$\rightarrow$						
R406         ERJ3G           R407         ERJ3G           R408         ERJ3G           R409         ERJ3G           R410         ERJ3G           R411         ERJ3G           R412         ERJ3G           R415         ERJ3G           R416         ERJ3G           R417         ERJ3G           R418         ERJ3G           R419         ERJ3G           R420         ERJ3G           R421         ERJ3G           R422         ERJ3G           R423         ERJ3G           R424         ERJ3G           R425         ERJ3G           R426         ERJ3G           R427         ERJ3G           R428         ERJ3G           R430         ERJ3G           R431         ERJ3G           R432         ERJ3G           R433         ERJ3G           R434         ERJ3G           R435         ERJ3G           R436         ERJ3G           R437         ERJ3G           R443         ERJ3G           R444         ERJ3G           R444         ERJ3G </td <td>3GEYJ223 3GEYJ561 3GEYJ561 3GEYJ103</td> <td>CHIP 1/20W 22K CHIP 1/20W 560</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	3GEYJ223 3GEYJ561 3GEYJ561 3GEYJ103	CHIP 1/20W 22K CHIP 1/20W 560	1						
R407         ERJ3G           R408         ERJ3G           R409         ERJ3G           R410         ERJ3G           R411         ERJ3G           R412         ERJ3G           R415         ERJ3G           R416         ERJ3G           R417         ERJ3G           R418         ERJ3G           R419         ERJ3G           R420         ERJ3G           R421         ERJ3G           R422         ERJ3G           R423         ERJ3G           R424         ERJ3G           R425         ERJ3G           R426         ERJ3G           R427         ERJ3G           R428         ERJ3G           R429         ERJ3G           R430         ERJ3G           R431         ERJ3G           R432         ERJ3G           R433         ERJ3G           R434         ERJ3G           R435         ERJ3G           R436         ERJ3G           R437         ERJ3G           R440         ERJ3G           R441         ERJ3G           R442         ERJ3G </td <td>3GEYJ561 3GEYJ561 3GEYJ103</td> <td>CHIP 1/20W 560</td> <td>1</td> <td></td> <td></td> <td></td> <td>THERMI STORS</td> <td></td> <td></td>	3GEYJ561 3GEYJ561 3GEYJ103	CHIP 1/20W 560	1				THERMI STORS		
R408         ERJ3G           R409         ERJ3G           R410         ERJ3G           R411         ERJ3G           R411         ERJ3G           R412         ERJ3G           R415         ERJ3G           R416         ERJ3G           R417         ERJ3G           R418         ERJ3G           R419         ERJ3G           R420         ERJ3G           R421         ERJ3G           R422         ERJ3G           R423         ERJ3G           R424         ERJ3G           R425         ERJ3G           R426         ERJ3G           R427         ERJ3G           R428         ERJ3G           R430         ERJ3G           R431         ERJ3G           R432         ERJ3G           R433         ERJ3G           R434         ERJ3G           R435         ERJ3G           R436         ERJ3G           R437         ERJ3G           R443         ERJ3G           R444         ERJ3G           R443         ERJ3G           R444         ERJ3G </td <td>3GEYJ561 3GEYJ103</td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td>1</td> <td></td> <td>TH101</td> <td>VRE0023</td> <td>THERMI STOR</td> <td>1</td> <td></td>	3GEYJ561 3GEYJ103	· · · · · · · · · · · · · · · · · · ·	1		TH101	VRE0023	THERMI STOR	1	
R409         ERJ3G           R410         ERJ3G           R411         ERJ3G           R411         ERJ3G           R412         ERJ3G           R415         ERJ3G           R416         ERJ3G           R417         ERJ3G           R418         ERJ3G           R419         ERJ3G           R420         ERJ3G           R421         ERJ3G           R422         ERJ3G           R423         ERJ3G           R424         ERJ3G           R425         ERJ3G           R426         ERJ3G           R427         ERJ3G           R428         ERJ3G           R430         ERJ3G           R431         ERJ3G           R432         ERJ3G           R433         ERJ3G           R434         ERJ3G           R435         ERJ3G           R436         ERJ3G           R437         ERJ3G           R443         ERJ3G           R440         ERJ3G           R441         ERJ3G           R442         ERJ3G           R443         ERJ3G </td <td>3GEYJ103</td> <td></td> <td>1</td> <td></td> <td>TH102 TH103</td> <td>VRE0023 VRE0023</td> <td>THERMI STOR THERMI STOR</td> <td>1</td> <td></td>	3GEYJ103		1		TH102 TH103	VRE0023 VRE0023	THERMI STOR THERMI STOR	1	
R410         ERJ3G           R411         ERJ3G           R412         ERJ3G           R415         ERJ3G           R416         ERJ3G           R417         ERJ3G           R418         ERJ3G           R419         ERJ3G           R420         ERJ3G           R421         ERJ3G           R422         ERJ3G           R423         ERJ3G           R424         ERJ3G           R425         ERJ3G           R426         ERJ3G           R427         ERJ3G           R428         ERJ3G           R430         ERJ3G           R431         ERJ3G           R432         ERJ3G           R433         ERJ3G           R434         ERJ3G           R435         ERJ3G           R436         ERJ3G           R437         ERJ3G           R438         ERJ3G           R440         ERJ3G           R441         ERJ3G           R442         ERJ3G           R443         ERJ3G           R444         ERJ3G           R445         ERJ3G </td <td></td> <td>CHIP 1/20W 10K</td> <td>1</td> <td></td> <td>TH103</td> <td>VRE0023</td> <td>THERMISTOR</td> <td>1</td> <td></td>		CHIP 1/20W 10K	1		TH103	VRE0023	THERMISTOR	1	
R412         ERJ3G           R415         ERJ3G           R416         ERJ3G           R417         ERJ3G           R418         ERJ3G           R419         ERJ3G           R420         ERJ3G           R421         ERJ3G           R422         ERJ3G           R423         ERJ3G           R424         ERJ3G           R425         ERJ3G           R426         ERJ3G           R427         ERJ3G           R428         ERJ3G           R429         ERJ3G           R430         ERJ3G           R431         ERJ3G           R432         ERJ3G           R433         ERJ3G           R434         ERJ3G           R435         ERJ3G           R436         ERJ3G           R437         ERJ3G           R440         ERJ3G           R441         ERJ3G           R442         ERJ3G           R443         ERJ3G           R444         ERJ3G           R445         ERJ3G           R446         ERJ3G           R447         ERJ3G </td <td></td> <td>CHIP 1/20W 1K</td> <td>1</td> <td></td> <td>TH301</td> <td>ERTD2FHK802</td> <td>THERMI STOR</td> <td>1</td> <td></td>		CHIP 1/20W 1K	1		TH301	ERTD2FHK802	THERMI STOR	1	
R415         ERJ3G           R416         ERJ3G           R417         ERJ3G           R417         ERJ3G           R419         ERJ3G           R420         ERJ3G           R421         ERJ3G           R422         ERJ3G           R423         ERJ3G           R424         ERJ3G           R425         ERJ3G           R426         ERJ3G           R427         ERJ3G           R428         ERJ3G           R429         ERJ3G           R430         ERJ3G           R431         ERJ3G           R432         ERJ3G           R433         ERJ3G           R434         ERJ3G           R435         ERJ3G           R436         ERJ3G           R437         ERJ3G           R439         ERJ3G           R440         ERJ3G           R441         ERJ3G           R442         ERJ3G           R443         ERJ3G           R444         ERJ3G           R445         ERJ3G           R446         ERJ3G           R447         ERJ3G </td <td>3GEYJ183</td> <td>CHIP 1/20W 18K</td> <td>1</td> <td></td> <td></td> <td><b>T</b></td> <td></td> <td></td> <td></td>	3GEYJ183	CHIP 1/20W 18K	1			<b>T</b>			
R416         ERJ3G           R417         ERJ3G           R417         ERJ3G           R418         ERJ3G           R419         ERJ3G           R420         ERJ3G           R421         ERJ3G           R422         ERJ3G           R423         ERJ3G           R424         ERJ3G           R425         ERJ3G           R426         ERJ3G           R427         ERJ3G           R428         ERJ3G           R429         ERJ3G           R430         ERJ3G           R431         ERJ3G           R433         ERJ3G           R434         ERJ3G           R435         ERJ3G           R436         ERJ3G           R437         ERJ3G           R438         ERJ3G           R440         ERJ3G           R441         ERJ3G           R442         ERJ3G           R443         ERJ3G           R444         ERJ3G           R445         ERJ3G           R446         ERJ3G           R447         ERJ3G           R448         ERJ3G </td <td>3GEYJ222</td> <td>CHIP 1/20W 2.2K</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td>	3GEYJ222	CHIP 1/20W 2.2K	1					_	
R417         ERJ3G           R418         ERJ3G           R419         ERJ3G           R420         ERJ3G           R421         ERJ3G           R422         ERJ3G           R423         ERJ3G           R424         ERJ3G           R425         ERJ3G           R426         ERJ3G           R427         ERJ3G           R428         ERJ3G           R430         ERJ3G           R431         ERJ3G           R432         ERJ3G           R433         ERJ3G           R434         ERJ3G           R435         ERJ3G           R436         ERJ3G           R437         ERJ3G           R438         ERJ3G           R443         ERJ3G           R440         ERJ3G           R441         ERJ3G           R442         ERJ3G           R443         ERJ3G           R444         ERJ3G           R445         ERJ3G           R446         ERJ3G           R447         ERJ3G           R448         ERJ3G           R449         ERJ3G </td <td>3GEYJ472</td> <td>CHIP 1/20W 4.7K</td> <td>1</td> <td></td> <td></td> <td></td> <td>VARIABLE RESISTORS</td> <td></td> <td></td>	3GEYJ472	CHIP 1/20W 4.7K	1				VARIABLE RESISTORS		
R418         ERJ3G           R419         ERJ3G           R420         ERJ3G           R421         ERJ3G           R422         ERJ3G           R422         ERJ3G           R424         ERJ3G           R425         ERJ3G           R426         ERJ3G           R427         ERJ3G           R428         ERJ3G           R430         ERJ3G           R431         ERJ3G           R432         ERJ3G           R433         ERJ3G           R434         ERJ3G           R435         ERJ3G           R436         ERJ3G           R437         ERJ3G           R438         ERJ3G           R439         ERJ3G           R440         ERJ3G           R441         ERJ3G           R442         ERJ3G           R443         ERJ3G           R444         ERJ3G           R445         ERJ3G           R446         ERJ3G           R447         ERJ3G           R448         ERJ3G           R449         ERJ3G           R450         ERJ3G </td <td>3GEYJ472</td> <td>CHIP 1/20W 4.7K</td> <td>1</td> <td></td> <td>VR101</td> <td>EVM7YSX00B14</td> <td>V.RESISTOR 10K</td> <td>1</td> <td></td>	3GEYJ472	CHIP 1/20W 4.7K	1		VR101	EVM7YSX00B14	V.RESISTOR 10K	1	
R419         ERJ 3G           R420         ERJ 3G           R421         ERJ 3G           R422         ERJ 3G           R423         ERJ 3G           R424         ERJ 3G           R425         ERJ 3G           R426         ERJ 3G           R427         ERJ 3G           R428         ERJ 3G           R429         ERJ 3G           R430         ERJ 3G           R431         ERJ 3G           R432         ERJ 3G           R433         ERJ 3G           R434         ERJ 3G           R435         ERJ 3G           R436         ERJ 3G           R437         ERJ 3G           R439         ERJ 3G           R440         ERJ 3G           R441         ERJ 3G           R442         ERJ 3G           R443         ERJ 3G           R444         ERJ 3G           R445         ERJ 3G           R446         ERJ 3G           R447         ERJ 3G           R448         ERJ 3G           R449         ERJ 3G           R450         ERJ 3G		CHIP 1/20W 3.3K	1		VR102	EVM7YSXOOB14	V.RESISTOR 10K	1	
R420         ERJ3G           R421         ERJ3G           R422         ERJ3G           R423         ERJ3G           R424         ERJ3G           R425         ERJ3G           R426         ERJ3G           R427         ERJ3G           R428         ERJ3G           R429         ERJ3G           R430         ERJ3G           R431         ERJ3G           R432         BRJ3G           R433         ERJ3G           R434         ERJ3G           R435         ERJ3G           R436         ERJ3G           R437         ERJ3G           R439         ERJ3G           R440         ERJ3G           R441         ERJ3G           R442         ERJ3G           R443         ERJ3G           R444         ERJ3G           R445         ERJ3G           R446         ERJ3G           R447         ERJ3G           R448         ERJ3G           R449         ERJ3G           R450         ERJ3G		CHIP 1/20W 6.8K	1		VR103	EVM7YSX00B54	V.RESISTOR 50K	1	
R421         ERJ3G           R422         ERJ3G           R423         ERJ3G           R424         ERJ3G           R425         ERJ3G           R426         ERJ3G           R427         ERJ3G           R428         ERJ3G           R429         ERJ3G           R430         ERJ3G           R431         ERJ3G           R432         ERJ3G           R433         ERJ3G           R434         ERJ3G           R435         ERJ3G           R436         ERJ3G           R437         ERJ3G           R438         ERJ3G           R440         ERJ3G           R441         ERJ3G           R442         ERJ3G           R443         ERJ3G           R444         ERJ3G           R445         ERJ3G           R446         ERJ3G           R447         ERJ3G           R449         ERJ3G           R450         ERJ3G           R451         ERJ3G		CHIP 1/20W 4.7K CHIP 1/20W 10K	1		VR104	EVM7YSWOOB25	V.RESISTOR 200K	1	-
R422         ERJ3G           R423         ERJ3G           R424         ERJ3G           R425         ERJ3G           R426         ERJ3G           R427         ERJ3G           R428         ERJ3G           R429         ERJ3G           R431         ERJ3G           R432         ERJ3G           R433         ERJ3G           R434         ERJ3G           R435         ERJ3G           R436         ERJ3G           R437         ERJ3G           R439         ERJ3G           R440         ERJ3G           R441         ERJ3G           R442         ERJ3G           R443         ERJ3G           R444         ERJ3G           R445         ERJ3G           R446         ERJ3G           R447         ERJ3G           R449         ERJ3G           R450         ERJ3G           R451         ERJ3G		CHIP 1/20W 10K	1	<del>                                     </del>	VR105 VR106	EVM7YSXOOB14 EVM7YSXOOB14	V.RESISTOR 10K V.RESISTOR 10K	1	
R423         ERJ3G           R424         ERJ3G           R425         ERJ3G           R426         ERJ3G           R427         ERJ3G           R428         ERJ3G           R429         ERJ3G           R430         ERJ3G           R431         ERJ3G           R432         ERJ3G           R433         ERJ3G           R434         ERJ3G           R435         ERJ3G           R436         ERJ3G           R437         ERJ3G           R438         ERJ3G           R440         ERJ3G           R441         ERJ3G           R442         ERJ3G           R443         ERJ3G           R444         ERJ3G           R445         ERJ3G           R447         ERJ3G           R448         ERJ3G           R449         ERJ3G           R450         ERJ3G           R451         ERJ3G		CHIP 1/20W 4.7K	1		VR107		V.RESISTOR 20K	1	
R425         ER.13G           R426         ER.13G           R427         ER.13G           R428         ER.13G           R429         ER.13G           R430         ER.13G           R431         ER.13G           R432         ER.13G           R433         ER.13G           R434         ER.13G           R435         ER.13G           R436         ER.13G           R437         ER.13G           R438         ER.13G           R440         ER.13G           R441         ER.13G           R442         ER.13G           R443         ER.13G           R444         ER.13G           R445         ER.13G           R446         ER.13G           R447         ER.13G           R448         ER.13G           R449         ER.13G           R450         ER.13G		CHIP 1/20W 1K	1		VR301	EVM7YSWOOB14	V.RESISTOR 10K	1	
R426         ERJ3G           R427         ERJ3G           R428         ERJ3G           R429         ERJ3G           R430         ERJ3G           R431         ERJ3G           R432         ERJ3G           R433         ERJ3G           R434         ERJ3G           R435         ERJ3G           R436         ERJ3G           R437         ERJ3G           R439         ERJ3G           R440         ERJ3G           R441         ERJ3G           R442         ERJ3G           R443         ERJ3G           R444         ERJ3G           R445         ERJ3G           R446         ERJ3G           R447         ERJ3G           R448         ERJ3G           R449         ERJ3G           R450         ERJ3G	3GEYJ102	CHIP 1/20W 1K	1		VR302	EVM7YSX00B13	V.RESISTOR 1K	1	
R427         ERJ3G           R428         ERJ3G           R429         ERJ3G           R430         ERJ3G           R431         ERJ3G           R432         ERJ3G           R433         ERJ3G           R434         ERJ3G           R435         ERJ3G           R436         ERJ3G           R437         ERJ3G           R439         ERJ3G           R440         ERJ3G           R441         ERJ3G           R442         ERJ3G           R443         ERJ3G           R444         ERJ3G           R445         ERJ3G           R446         ERJ3G           R447         ERJ3G           R448         ERJ3G           R449         ERJ3G           R450         ERJ3G	3GEYJ472	CHIP 1/20W 4.7K	1		VR303	EVM7YSWOOB14	V.RESISTOR 10K	1	
R428         ERJ3G           R429         ERJ3G           R430         ERJ3G           R431         ERJ3G           R432         ERJ3G           R433         ERJ3G           R434         ERJ3G           R435         ERJ3G           R436         ERJ3G           R437         ERJ3G           R438         ERJ3G           R439         ERJ3G           R440         ERJ3G           R441         ERJ3G           R442         ERJ3G           R443         ERJ3G           R444         ERJ3G           R445         ERJ3G           R446         ERJ3G           R447         ERJ3G           R448         ERJ3G           R449         ERJ3G           R450         ERJ3G		CHIP 1/20W 56K	1		VR304	EVM7YSXOOB13	V.RESISTOR 1K	1	
R429         ERJ3G           R430         ERJ3G           R431         ERJ3G           R432         ERJ3G           R433         ERJ3G           R434         ERJ3G           R435         ERJ3G           R436         ERJ3G           R437         ERJ3G           R438         ERJ3G           R439         ERJ3G           R440         ERJ3G           R441         ERJ3G           R442         ERJ3G           R443         ERJ3G           R444         ERJ3G           R445         ERJ3G           R446         ERJ3G           R447         ERJ3G           R448         ERJ3G           R449         ERJ3G           R450         ERJ3G           R451         ERJ3G		CHIP 1/20W 0	1		VR305	EVM7YSX00B23	V.RESISTOR 2K	1	
R430 ERJ3G R431 ERJ3G R432 ERJ3G R433 ERJ3G R434 ERJ3G R435 ERJ3G R436 ERJ3G R437 ERJ3G R438 ERJ3G R439 ERJ3G R440 ERJ3G R441 ERJ3G R441 ERJ3G R442 ERJ3G R444 ERJ3G R444 ERJ3G R444 ERJ3G R445 ERJ3G R446 ERJ3G R447 ERJ3G R447 ERJ3G R447 ERJ3G R448 ERJ3G R448 ERJ3G R449 ERJ3G R449 ERJ3G		CHIP 1/20W 68K	1	<u> </u>	VR306	EVM7YSWOOB14	V.RESISTOR 10K	1	
R431 ERJ3G R432 ERJ3G R433 ERJ3G R434 ERJ3G R435 ERJ3G R435 ERJ3G R437 ERJ3G R438 ERJ3G R439 ERJ3G R440 ERJ3G R441 ERJ3G R441 ERJ3G R442 ERJ3G R444 ERJ3G R444 ERJ3G R444 ERJ3G R445 ERJ3G R446 ERJ3G R447 ERJ3G R447 ERJ3G R448 ERJ3G R449 ERJ3G R449 ERJ3G		CHIP 1/20W 100K CHIP 1/20W 1K	1	<del> </del>	VR308 VR312	EVM7YSWOOB55 EVM7YSWOOB14	V.RESISTOR 500K V.RESISTOR 10K	1	
R432 BRJ3G R433 BRJ3G R434 BRJ3G R435 BRJ3G R436 BRJ3G R437 BRJ3G R438 BRJ3G R440 BRJ3G R440 BRJ3G R441 BRJ3G R442 BRJ3G R442 BRJ3G R444 BRJ3G R444 BRJ3G R444 BRJ3G R444 BRJ3G R446 BRJ3G R447 BRJ3G R447 BRJ3G R448 BRJ3G R449 BRJ3G R449 BRJ3G		CHIP 1/20W 100K	1		VR312	EVM7YSWOOB14	V.RESISTOR 10K	1	
R434 ERJ3G R435 ERJ3G R436 ERJ3G R437 ERJ3G R438 ERJ3G R439 ERJ3G R441 ERJ3G R441 ERJ3G R442 ERJ3G R444 ERJ3G R444 ERJ3G R444 ERJ3G R446 ERJ3G R446 ERJ3G R447 ERJ3G R448 ERJ3G R449 ERJ3G R449 ERJ3G		CHIP 1/20W 5.6K	1		VR314	EVM7YSX00B54	V.RESISTOR 50K	1	
R435 ERJ3G R436 ERJ3G R437 ERJ3G R438 ERJ3G R439 ERJ3G R440 ERJ3G R441 ERJ3G R442 ERJ3G R444 ERJ3G R444 ERJ3G R444 ERJ3G R445 ERJ3G R446 ERJ3G R446 ERJ3G R447 ERJ3G R448 ERJ3G R449 ERJ3G R449 ERJ3G	3GEYJ562	CHIP 1/20W 5.6K	1		VR315	EVM7YSW00B54	V.RESISTOR 50K	1	
R436 PR.JSG R437 PR.JSG R438 PR.JSG R439 PR.JSG R440 PR.JSG R441 PR.JSG R441 PR.JSG R442 PR.JSG R444 PR.JSG R444 PR.JSG R445 PR.JSG R446 PR.JSG R447 PR.JSG R448 PR.JSG R449 PR.JSG R449 PR.JSG R450 PR.JSG R450 PR.JSG	3GEYJ102	CHIP 1/20W 1K	1		VR316	EVM7YSWOOB13	V.RESISTOR 1K	1	
R437 ER.J3G R438 ER.J3G R439 ER.J3G R440 ER.J3G R441 ER.J3G R441 ER.J3G R443 ER.J3G R444 ER.J3G R444 ER.J3G R445 ER.J3G R446 ER.J3G R447 ER.J3G R449 ER.J3G R449 ER.J3G R450 ER.J3G	3GEYJ153	CHIP 1/20W 15K	1		VR317	EVM7YSWOOB13	V.RESISTOR 1K	1	
R438 BRJ3G R439 ERJ3G R440 ERJ3G R441 ERJ3G R442 ERJ3G R444 ERJ3G R444 ERJ3G R444 ERJ3G R444 ERJ3G R446 ERJ3G R447 ERJ3G R448 ERJ3G R449 ERJ3G R450 ERJ3G		CHIP 1/20W 8.2K	1		VR318	EVM7YSX00B24		1	
R439 ERJ3G R440 ERJ3G R441 ERJ3G R442 ERJ3G R443 ERJ3G R444 ERJ3G R444 ERJ3G R444 ERJ3G R446 ERJ3G R447 ERJ3G R448 ERJ3G R449 ERJ3G R450 ERJ3G		CHIP 1/20W 10K	1		VR319	EVM7YSX00B24	-	1	
R440 PRJ3G R441 PRJ3G R442 PRJ3G R443 PRJ3G R444 PRJ3G R445 PRJ3G R446 PRJ3G R447 PRJ3G R448 PRJ3G R449 PRJ3G R450 PRJ3G		CHIP 1/20W 560	1	<del></del>	VR322	EVM7YSW00B14		1	
R441 ERJ3G R442 ERJ3G R443 ERJ3G R444 ERJ3G R445 ERJ3G R446 ERJ3G R447 ERJ3G R448 ERJ3G R449 ERJ3G R450 ERJ3G		CHIP 1/20W 3.9K CHIP 1/20W 330	1		VR323 VR324	EVM7YSWOOB14 EVM7YSWOOB14		1	
R442 ERJ3G R443 ERJ3G R444 ERJ3G R445 ERJ3G R446 ERJ3G R447 ERJ3G R448 ERJ3G R449 ERJ3G R450 ERJ3G		CHIP 1/20W 4.7K	1		VR324 VR325	EVM7YSWOOB34		1	
R443 ERJ3G R444 ERJ3G R445 ERJ3G R446 ERJ3G R447 ERJ3G R449 ERJ3G R450 ERJ3G		CHIP 1/20W 390	1		W.SES	EVIII IBIIOOBSI	THE STOR	$\dashv$	
R445         ERJ3G           R446         ERJ3G           R447         ERJ3G           R448         ERJ3G           R449         ERJ3G           R450         ERJ3G           R451         ERJ3G		CHIP 1/20W 2.2K	1	L				_†	
R446 PR.J3G R447 ER.J3G R448 ER.J3G R449 ER.J3G R450 ER.J3G R451 ER.J3G	3GEYJ391	CHIP 1/20W 2.2K	1			1	MISCELLANEOUS		
R447 ERJ3G R448 ERJ3G R449 ERJ3G R450 ERJ3G R451 ERJ3G	3GEYJ391 3GEYJ222	CHIP 1/20W 1K	1			VWJ0305	14PIN FLEXIBLE CABLE	1	
R448 ERJ3G R449 ERJ3G R450 ERJ3G R451 ERJ3G	3GEYJ391 3GEYJ222 3GEYJ222	CHIP 1/20W 270	1						
R449 ERJ3G R450 ERJ3G R451 ERJ3G	3GEYJ391 3GEYJ222 3GEYJ222 3GEYJ102 3GEYJ271	CHIP 1/20W 1K	1			<u> </u>		_	····
R450 ERJ3G R451 ERJ3G	3GEYJ391 3GEYJ222 3GEYJ222 3GEYJ102 3GEYJ271 3GEYJ102	CHIP 1/20W 1K	1		_				
R451 ERJ3G	3GEYJ391 3GEYJ222 3GEYJ222 3GEYJ102 3GEYJ271 3GEYJ102 3GEYJ102	CHIP 1/20W 1K	1		-	VEP23061B	ENCODER PACK D.B.A.		
	3GEYJ391 3GEYJ222 3GEYJ222 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102	CHIP 1/20W 560 CHIP 1/20W 2.2K	1	-	<b> </b>			-+	
Mana   INK. I d.	3GEYJ391 3GEYJ222 3GEYJ222 3GEYJ102 3GEYJ271 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102		1		<del></del>	+			
	3GEYJ391 3GEYJ222 3GEYJ102	ICHIP 1/20W 0	1			1			· <u>·</u>
	3GEYJ391 3GEYJ222 3GEYJ222 3GEYJ102	CHIP 1/20W 0  CHIP 1/20W 12K	1			1			
R461 ERJ3G	3GEYJ391 3GEYJ222 3GEYJ222 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ222 3GEYJ222 3GEYJ222	· · · · · · · · · · · · · · · · · · ·	1						
	3GEYJ391 3GEYJ222 3GEYJ222 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ561 3GEYJ222 3GEY0R00 3GEYJ123 3GEYJ123	CHIP 1/20W 12K	1						
	3GEYJ391 3GEYJ222 3GEYJ222 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ222 3GEYJ222 3GEYJ222 3GEYJ223 3GEYJ123 3GEYJ123 3GEYJ123	CHIP 1/20W 12K CHIP 1/20W 8.2K CHIP 1/20W 1.2K CHIP 1/20W 4.7K	1	-					
	3GEYJ391 3GEYJ222 3GEYJ222 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ561 3GEYJ222 3GEYJ222 3GEYJ222 3GEYJ123 3GEYJ123 3GEYJ123 3GEYJ123 3GEYJ123	CHIP 1/20W 12K CHIP 1/20W 8.2K CHIP 1/20W 1.2K CHIP 1/20W 1.2K CHIP 1/20W 4.7K CHIP 1/20W 0	1		ļ		CARDACIMODO		
R467 FRJ3G	3GEYJ391 3GEYJ222 3GEYJ222 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ122 3GEYGROO 3GEYJ123 3GEYGROO 3GEYJ122 3GEYGROO 3GEYJ122 3GEYGROO 3GEYJ122 3GEYJ122	CHIP 1/20W 12K CHIP 1/20W 8.2K CHIP 1/20W 1.2K CHIP 1/20W 1.2K CHIP 1/20W 4.7K CHIP 1/20W 0 CHIP 1/20W 10K	1 1	L	-	-	CAPACITORS		
	3GEYJ391 3GEYJ222 3GEYJ222 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ102 3GEYJ122 3GEYGROO 3GEYJ123 3GEYGROO 3GEYJ122 3GEYGROO 3GEYJ122 3GEYGROO 3GEYJ122 3GEYJ122	CHIP 1/20W 12K CHIP 1/20W 8.2K CHIP 1/20W 1.2K CHIP 1/20W 1.2K CHIP 1/20W 4.7K CHIP 1/20W 0	+	,		1	1		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C901		ECST1CY105Z	T.CAPACITOR 16V 1U	1		C609	ECUX1E101JCM	CHIP 25V 100P	1	
2903		ECUM1C224ZFN	CHIP 16V 0.22U	1		C610	ECUX1E101JCM	CHIP 25V 100P	1	
C904	L	ECST1AC106Z	T.CAPACITOR 10V 10U	1		C611	ECUX1E101JCM	CHIP 25V 100P	1	
C905		ECUX1E330JCM	CHIP 25V 33P	1		C612	ECUM1C224ZFN	CHIP 16V 0.22U	1	
C906	ļ	ECUX1E102KBM	CHIP 25V 1000P	1		C613	ECUX1E473KB	CHIP 25V 0.047U	1	
C907	+	ECUX1E102KBM	CHIP 25V 1000P	1		C614	ECUM1E473KB	CHIP 25V 0.047U	1	
C908	+		CHIP 25V 0.1U	1		C615	ECUX1E104ZFN		1	
C909	<del> </del> -	ECST1AC106Z	T.CAPACITOR 10V 10U CHIP 25V 0.1U	1		C616	ECEAOJKS1011	<del></del>	1	
C910 C911	$\vdash$	ECUX1E104ZFN		1		C617 C618	ECEA0JKS1011 ECEA1CKS100	E.CAPACITOR 6.3V 100U E.CAPACITOR 16V 10U	1	
C912	-	ECUM1C224ZFN ECUX1H103ZFN	CHIP 16V 0.22U CHIP 50V 0.01U	1		C619	ECEA1CKS100	E.CAPACITOR 16V 10U	1	
	$\vdash$	ECOXIHIO32FN	CHIF 30V 0.010	_		C620	ECEA1CKS100	E.CAPACITOR 16V 10U	1	
	1	~.				C621	ECRJA020E12X		1	
	1		INTEGRATED CIRCUITS			C622	ECUX1H391KBM	CHIP 50V 390P	1	
IC901	†	AN2253FA	ic	1		C623	ECUX1E104ZFN	CHIP 25V 0.1U	1	
				Ī		C624	ECUM1C224ZFN	CHIP 16V 0.22U	1	
	$\vdash$					C625	ECUM1C224ZFN	CHIP 16V 0.22U	1	-
	<b>—</b>		∞1L			C626	ECUX1E104ZFN	CHIP 25V 0.1U	1	
L901		VLQ0163K330	COIL 33UH	1		C627	ECUX1E473FN	CHIP 25V 0.047U	1	
						C628	ECUX1E273KBN	CHIP 25V 0.027U	1	
						C629	ECUX1E273KBN	CHIP 25V 0.027U	1	
			CONNECTORS			C630	ECUM1E683ZFN	CHIP 25V 0.063U	1	
PK901		VJR0367	CONNECTOR	1		C631	ECUX1E273KBN	CHIP 25V 0.027U	1	
PK902		VJR0367	CONNECTOR	1		C632	ECUX1E104ZFN	CHIP 25V 0.1U	1	
						C633	ECUX1E223KBN	CHIP 25V 0.023U	1	
						C634	ECEAOJ SN220	E.CAPACITOR 6.3V 22U	1	
			TRANSISTORS	oxdot		C635	ECUM1C224ZFN	CHIP 16V 0.22U	1	
Q901	<u> </u>	2SA1532	TRANSISTOR	1		C636	ECUX1E104ZFN	CHIP 25V 0.1U	1	
Q902		2SB1218	TRANSISTOR	1		C637	ECUX1E473FN	CHIP 25V 0.047U	1	
				ļ		C638	ECUM1C224ZFN	CHIP 16V 0.22U	1	
	1			ļ		C639	ECUM1C224ZFN	CHIP 16V 0.22U	1	
	1			<u> </u>		C640	ECUM1H100DCV		1	
	1		RESISTORS	ļ		C641	ECEA1CKS100	E.CAPACITOR 16V 10U	1	
R901		ERJ3GEYJ223	CHIP 1/20W 22K	1		C642	ECEA1CKS100	E.CAPACITOR 16V 10U	1	
R902	<b>_</b>	ERJ3GEYJ273	CHIP 1/20W 27K	1		C645	ECEAOJKS470	E.CAPACITOR 6.3V 47U	1	
R903	ļ	ERJ3GEYJ102	CHIP 1/20W 1K	1	-	C646	ECEA1HKS010	E.CAPACITOR 50V 1U	1	
R904	1	ERJ3GEYJ274	CHIP 1/20W 270K	1		C648	ECEA1CKS100	E.CAPACITOR 16V 10U	1	
R905	-	ERJ3GEYOROO	CHIP 1/20W 0	1		C649	ECUM1H333KB	CHIP 50V 0.033U	1	
R907	-	ERJ3GEYJ393	CHIP 1/20W 39K	1		C650	ECUM1H333KB	CHIP 50V 0.033U	1	
R908	<del> </del>	ERJ3GEYJ153	CHIP 1/20W 15K	1		C651	ECUX1E103ZFM		+	
R909	-	ERJ3GEYJ223	CHIP 1/20W 22K	1		C652	ECEAOJKS1011		1	
R910	+	ERJ3GEYJ273	CHIP 1/20W 27K	1		C653 C654	ECEA1CU100	E.CAPACITOR 16V 10U E.CAPACITOR 16V 10U	1	
R911 R912	+	ERJ3GEYJ333 ERJ3GEYJ103	CHIP 1/20W 33K CHIP 1/20W 10K	1		C655	ECEA1CKS100 ECUX1E104ZFN	<del></del>	1	
R913	+-	ERJ3GEYJ103	CHIP 1/20W 10K	1		C656	ECRJA020E12W	<del></del>	1	<del></del>
R914	+	ERJ3GEYJ182	CHIP 1/20W 1.8K	1		C657	ECUX1E104ZFN		1	
R915	+	ERJ3GEYJ560	CHIP 1/20W 56K	1		C658	ECEAQJKS470	E.CAPACITOR 6.3V 47U	1	
R916	+	ERJ3GEYJ222	CHIP 1/20W 2.2K	1		C659	ECUX1E220JCM	<del></del>	1	
R917	$\top$	ERJ3GEYJ103		1		C660	ECUX1E104ZFN		1	
R918	<u> </u>	ERJ3GEYG112	CHIP 1/20W 1.1K	1	****	C661	ECUX1H391KBM		1	
R919	$\top$	ERJ3GEYJ333	CHIP 1/20W 33K	1		C663	ECUX1E102JCM		1	
R921	T	ERJ3GEYJ333	CHIP 1/20W 33K	1						
R923	1	ERJ3GEYJ102	CHIP 1/20W 1K	1						
	T							DIODES		
				T		D602	MA110	DIODE	1	
				1		D603	MA110	DIODE	1	
				Ι		D604	1SS250	DIODE	1	
		VEP28015B	AUTO FOCUS C.B.A.	Ι		D605	1SS250	DIODE	1	
	Ī			Ι		D606	MA110	DIODE	1	
				Ι		D607	MA110	DIODE	1	
						D608	MA110	DIODE	1	
				I		D610	MA153	DIODE	1	
	$\Box$									
	$\Box$									
	$\Box$							FILTERS		
						FL601	ELB4B004	FILTER	1	
	$\Box$		CAPACITORS			FL602	VLF0595	FILTER	1	
C601	$\bot$	ECEAOJU471	E. CAPACITOR 6.3V 470U	1		FL603	ELB4B005	FILTER	1	
C602	L	ECUX1E270JCM	CHIP 25V 27P	1		FL604	ELB4D001	FILTER	1	<u> </u>
C603	L	ECUX1E330JCM	CHIP 25V 33P	1		FL605	VLF0596	FILTER	1	
0604	LΞ	ECUX1E330JCM	CHIP 25V 33P	1					L	
C605	L	ECUX1E103ZFM		1					<u> </u>	
C606		ECUX1E103ZFM	CHIP 25V 0.01U	1			_	INTEGRATED CIRCUITS	<u> </u>	
C607	<u> </u>	ECUX1E103ZFM	CHIP 25V 0.01U	1		IC601	MN15865VYV	IC	1	
C608	<u>L</u>	ECUX1E101JCM	CHIP 25V 0.01U	1		IC602	AN2583S	IC	1	
			1	1	1			1	1	1

Ref.No.	Part No.		Pcs	Remarks	Ref.No.		Part No.	+	Name & Descrip		Pcs	
IC603 IC604	AN78NO5	IC	1		R632		ERJ3GEYJ473	CHIP	1/20W	47K	1	
IC605	NJM4558M-P AN6562S	IC IC	1		R633	_	ERJ3GEYJ224	CHIP	1/20W	220K	1	
IC606	NJM3415M	IC	1		R634 R635		ERJ3GEYJ224	CHIP	1/20W	220K	1	
IC607	MN1280Q	IC	1		R636		ERJ3GEYJ224 ERJ3GEYJ224	CHIP	1/20W 1/20W	220K 220K	1	
			1		R637		ERJ3GEYJ394	CHIP	1/20W	390K	1	
1					R638	_	ERJ6GEYF333	CHIP	1/16W	33K	1	<del></del>
		COILS			R639	$\vdash$	ERJ6GEYF473	CHIP	1/16W	47K	1	
L601	VLQ0300J560	COIL 56UH	1		R640	_	ERJ3GEYJ394	CHIP	1/20W	390K	1	<del></del>
L602	VLQ0163K330	COIL 33UH	1		R641		ERJ6GEYF333	CHIP	1/16W	33K	1	<del></del>
1.603	VLQELO5F101K	∞IL 100UH	1		R642		ERJ6GEYF473	CHIP	1/16W	47K	1	
				-	R643		ERJ3GEYJ223	CHIP	1/20W	22K	1	· <del></del>
					R644		ERJ3GEYJ223	CHIP	1/20W	22K	1	
					R645		ERJ3GEYJ183	CHIP	1/20W	18K	1	
		CONNECTORS			R646		ERJ3GEYJ224	CHIP	1/20W	220K	1	
B601	VJP2227	CONNECTOR	1		R647		ERJ3GEYJ124	CHIP	1/20W	120K	1	
P601	VJP1599T	CONNECTOR (MALE) 6P	1		R648		ERJ3GEYJ102	CHIP	1/20W	1K	1	
					R649		ERJ3GEYJ123	CHIP	1/20W	12K	1	
					R650	Ľ	ERJ3GEYJ123	CHIP	1/20W	12K	1	
		TRANSISTORS			R651		ERJ3GEYJ102	CHIP	1/20W	1K	1	
Q601	2SD1819	TRANSISTOR	1		R652	L.	ERJ3GEYJ153	CHIP	1/20W	15K	1	+
Q602	2SD1819	TRANSISTOR	1		R653	<u> </u>	ERJ3GEYJ682	CHIP		6.8K	1	
Q603	2SB710	TRANSISTOR CHIP	1		R654	<u> </u>	ERJ3GEYJ562	CHIP		5.6K	1	
Q604	2SB1219	TRANSISTOR	1		R655	<u> </u>	ERJ3GEYJ562	CHIP	<u>-</u>	5.6K	1	
Q605	2SD1820	TRANSISTOR	1		R656		ERJ3GEYJ220	CHIP	1/20W	22	1	
Q606	2SB1219	TRANSISTOR	1		R657	<u> </u>	ERJ3GEYJ103	CHIP	1/20W	10K	1	<del></del>
Q607 Q608	2SD1820	TRANSISTOR	1		R658		ERJ3GEYJ103	CHIP	1/20W	10K	1	<del></del>
Q608	2SD1819	TRANSISTOR	1		R659		ERJ3GEYJ105	CHIP	1/20W	1M	1	
Q609 Q610	2SD1819	TRANSISTOR	1		R660	<u> </u>	ERJ3GEYJ104	CHIP	~	100K	1	
Q610 Q611	2SD1819	TRANSISTOR	1		R661	-	ERJ3GEYJ104	CHIP	· — —	100K	1	<del> </del>
Q612	2SD1819 2SD1819	TRANSISTOR	1		R662		ERJ3GEYJ104	CHIP		100K	1	<del> </del>
Q613	2SA1255	TRANSISTOR TRANSISTOR	1		R663		ERJ3GEYJ104	CHIP		100K	1	
Q614	2SC3138	TRANSISTOR	1		R664 R665	-	ERJ3GEYJ104	CHIP		100K	1	-
Q615	2SD1819	TRANSISTOR	1		R666	—	ERJ3GEYJ103 ERJ3GEYJ103	CHIP	1/20W	10K	1	<del></del>
Q616	2SB1220	TRANSISTOR	1	(T,S)	R667		ERJ3GEYJ223	CHIP	1/20W	10K	1	
Q617	2SB1220	TRANSISTOR	1	(T,S)	R668		ERJ3GEYJ222	CHIP	1/20W 1/20W	22K 2.2K	1	<del> </del>
Q618	2SD1819	TRANSISTOR	1	(170)	R669		ERJ3GEYJ103	CHIP	1/20W	10K	1	
Q619	2SD1819	TRANSISTOR	1		R670		ERJ3GEYJ103	CHIP	1/20W	10K	1	
Q620	2SD1819	TRANSISTOR	1		R671	-	ERJ3GEYJ223	CHIP	1/20W	22K	1	
Q621	2SD1819	TRANSISTOR	1		R672	_	ERJ3GEYJ223	CHIP	1/20W	22K	1	<del></del>
					R673		ERJ3GEYJ332	CHIP	·	3.3K	1	<del> </del>
			-		R674		ERJ3GEYJ332	CHIP		3.3K	1	
				-	R675		ERJ3GEYJ102	CHIP	1/20W	1K	1	
		RESISTORS		· · · · · · · · · · · · · · · · · · ·	R676		ERJ3GEYJ103	CHIP	1/20W	10K	1	
R602	ERJ3GEYJ103	CHIP 1/20W 10K	1	****	R677		ERJ3GEYJ102	CHIP	1/20W	1K	1	
R603	ERJ3GEYJ103	CHIP 1/20W 10K	1		R678		ERJ3GEYJ103	CHIP	1/20W	10K	1	
R604	ERJ3GEYJ102	CHIP 1/20W 1K	1		R679		ERJ3GEYJ332	CHIP	1/20W	3.3K	1	
R605	ERJ3GEYJ683	CHIP 1/20W 68K	1		R680		ERJ3GEYJ332	СНІР	1/20W	3.3K	1	
R606	ERJ3GEYJ103	CHIP 1/20W 10K	1		R681		ERJ3GEYJ223	CHIP	1/20W	22K	1	
R607	ERJ3GEYJ102	CHIP 1/20W 1K	1		R682		ERJ3GEYJ223	CHIP	1/20W	22K	1	
R608	ERJ3GEYJ223	CHIP 1/20W 22K	1		R683		ERJ3GEYJ562	CHIP	1/20W	5.6K	1	
R609	ERJ3GEYJ563	CHIP 1/20W 56K	1		R684		ERJ3GEYJ681	CHIP	1/20W	680	1	
R610	ERJ3GEYJ563	CHIP 1/20W 56K	1		R685		ERJ3GEYJ105	CHIP	1/20W	1M	1	
R611	ERJ3GEYJ272	CHIP 1/20W 2.7K	1		R686		ERJ3GEYJ333	CHIP	1/20W	33K	1	
R612	ERJ3GEYJ562	CHIP 1/20W 5.6K	1		R687		ERJ3GEYJ182	CHIP		1.8K	1	
R613	ERJ3GEYJ272	CHIP 1/20W 2.7K	1		R688	_	ERJ3GEYJ333	CHIP	1/20W	33K	1	
R614	ERJ3GEYJ562	CHIP 1/20W 5.6K	1		R689	_	ERJ3GEYJ182	CHIP		1.8K	1	
R615	ERJ3GEYJ272	CHIP 1/20W 2.7K	1	-	R690	_	ERJ3GEYJ393	CHIP	1/20W	39K	1	
R617	ERJ3GEYJ104	CHIP 1/20W 100K	1		R691	$\rightarrow$	ERJ3GEYJ563	CHIP	1/20W	56K	1	
R618	ERJ3GEYJ104	CHIP 1/20W 100K	1		R692		ERJ3GEYJ100	CHIP	1/20W	10K	1	·
R619	ERJ3GEYJ272	CHIP 1/20W 2.7K CHIP 1/20W 1K	1		R693		ERJ3GEYJ103	CHIP	1/20W	10K	1	
620	ERJ3GEYJ102 ERJ3GEYJ152	CHIP 1/20W 1K CHIP 1/20W 1.5K	1		R694 R695		ERJ3GEYJ103	CHIP	1/20W	10K	1	
R621	ERJ3GEYJ152 ERJ3GEYJ152	CHIP 1/20W 1.5K	1		R696	_	ERJ3GEYJ103 ERJ3GEYJ103	CHIP	1/20W	10K	1	
1622	ERJ3GEYJ132 ERJ3GEYJ271	CHIP 1/20W 1.5K	1		R697	_	ERJ3GEYJ103 ERJ3GEYJ394	CHIP	1/20W		1	
1623	ERJ3GEYJ122	CHIP 1/20W 2/0	1		R698	_	ERJ3GEYJ394 ERJ3GEYJ474	CHIP		390K 470K	1	
R624	ERJ3GEYJ102	CHIP 1/20W 1.2K	1		R699	_	ERJ3GEYJ220	CHIP	1/20W	22	1	
8625	ERJ3GEYJ562	CHIP 1/20W IK	1		R800	_	ERJ3GEYJ221	CHIP	1/20W	220	1	
8626	ERJ3GEYJ102	CHIP 1/20W 5.6K	1		R801	_	ERJ3GEYJ332	CHIP		3.3K	1	
627	ERJ3GEYJ102	CHIP 1/20W IK	1		R804	_	ERJ3GEYJ332 ERJ3GEYJ104	CHIP	***	3.3K 100K	_ <u>1</u>	
628	ERJ3GEYJ102	CHIP 1/20W IK	1		R805	_	ERJ3GEYJ104 ERJ3GEYJ101	CHIP	1/20W	100K	1	
1629	ERJ3GEYJ102	CHIP 1/20W 1K	1			$\dashv$			*/ 20#			
630	ERJ3GEYJ751	CHIP 1/20W 750	1			$\dashv$		<del>                                     </del>				
		· · · · · · · · · · · · · · · · · · ·	-					<del>L</del>				
1631	ERJ3GEYJ331	CHIP 1/20W 330	1 1		11 1	- 1		TRANSF	ORMAR			,
R631	ERJ3GEYJ331	CHIP 1/20W 330	1					TRANSF	ORMAR			

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Ref.No.		Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	ŀ	Part No.	Part Name & Description	Pcs	Remarks
T601		ETE13K43AY	TRANSFORMAR	1		Q702		2SD968A	TRANSISTOR	1	
						0703		2SA1022	TRANSISTOR	1	
			VARIABLE RESISTORS								
VR601		EVML1GA00B53	V.RESISTOR 5K	1							
VR602	Ī	EVML1GA00B15	V.RESISTOR 100K	1					RESISTORS		
VR603		EVM7YSX00B14	V.RESISTOR 10K	1	****	R701		ERJ3GEYK6R8	CHIP 1/20W 6.8	1	
						R702		ERJ6GEYG682	CHIP 1/16W 6.8K	1	
	T					R703		ERJ3GEYJ392	CHIP 1/20W 3.9K	1	
			CRYSTAL OSCILLATOR			R704		ERJ3GEYJ182	CHIP 1/20W 1.8K	1	
X601		VSX0196	CRYSTAL OSCILLATOR	1		R705		ERJ6GEYK4R7	CHIP 1/16W 4.7	1	
						R706		ERJ6GEYJ150	CHIP 1/16W 15	1	
						R707		ERJ6GEYJ151	CHIP 1/16W 150	1	
						R708		ERJ3GEYJ102	CHIP 1/20W 1K	1	
						R709		ERJ3GEYJ163	CHIP 1/20W 16K	1	
		VEP27036B	E.V.F. C.B.A.			R710		ERJ3GEYJ561	CHIP 1/20W 560	1	
						R711		ERJ3GEYJ102	CHIP 1/20W 1K	1	
						R712		ERJ3GEYJ124	CHIP 1/20W 120K	1	
						R713		ERJ3GEYJ222	CHIP 1/20W 2.2K	1	
						R714		ERJ3GEYJ562	CHIP 1/20W 5.6K	1	
						R715		ERJ3GEYJ102	CHIP 1/20W 1K	1	
						R716	L	ERJ3GEYJ102	CHIP 1/20W 1K	1	
	L					R717	L	ERJ3GEYJ561	CHIP 1/20W 560	1	
						R718	L	ERJ6GEYJ222	CHIP 1/16W 2.2K	1	
						R719		ERJ3GEYJ222	CHIP 1/20W 2.2K	1	
						R720		ERJ3GEYJ274	CHIP 1/20W 270K	1	
						R721		ERJ3GEYJ223	CHIP 1/20W 22K	1	
						R722		ERJ3GEYJ682	CHIP 1/20W 6.8K	1	
	Ī		CAPACITORS			R723		ERJ3GEYJ102	CHIP 1/20W 1K	1	
C701		ECEAOJKS101I	E.CAPACITOR 6.3V 100U	1		R724		ERJ3GEYJ105	CHIP 1/20W 1M	1	
C702		ECSE1CY684V	T.CAPACITOR 16V 0.68U	1		R726		ERJ6GEYK155	CHIP 1/16W 1.5M	1	
C703		ECEA1CKS100	E.CAPACITOR 16V 10U	1		R727	1	ERJ6GEYK155	CHIP 1/16W 1.5M	1	
C704		ECEAOJKS470	E. CAPACITOR 6.3V 47U	1		R728	1	ERJ6GEYK335	CHIP 1/16W 3.3M	1	
C705		ECEAOJK221	E.CAPACITOR 6.3V 220U	1		R729	1	ERJ6GEYK225	CHIP 1/16W 2.2M	1	
C706	1	ECUX1H681KN	CHIP 50V 680P	1		R730	T	ERJ3GEYJ821	CHIP 1/20W 820	1	
C707	1	ECUM1C224ZFN	CHIP 16V 0.22U	1		R731		ERJ3GEYJ102	CHIP 1/20W 1K	1	
C708		ECUX1E223KBN	CHIP 25V 0.023U	1							
C709	T	ECEA1CKS100	E.CAPACITOR 16V 10U	1			T				
C710		ECUM1H152JN	CHIP 50V 1500P	1					TRANSFORMAR		
C711		ECEA1CKS100	E.CAPACITOR 16V 10U	1		T701		ETF14L26A	FLYBACK TRANS.	1	
C712	I	ECEA1AF470	E.CAPACITOR 10V 47U	1				ŀ			
C713		ECEAOJK221	E.CAPACITOR 6.3V 220U	1							
C714		ECQK1332JZ	P. CAPACITOR	1							
C715		ECEA1CKS220I	E. CAPACITOR 16V 22U	1					THERMI STER		
C716		ECUX1H181KN	CHIP 50V 180P	1		TH701		VRT0012	THERMI STER	1	
C717		ECEA1HKS4R7	E.CAPACITOR 50V 4.7U	1							
C718		VCK0057K121	C. CAPACITOR 120P	1							
C719		VCK0058K331	C.CAPACITOR 330P	1					VARIABLE RESISTOR		
C720		ECUX1H473ZFN	CHIP 50V 0.047U	1		VR701	<u> </u>	EVM7YSWOOBE2	V.RESISTOR	1	
C721		ECUX1H473ZFN	CHIP 50V 0.047U	1		VR702	L	EVM7YSX00B53	V.RESISTOR 5K	1	
C722		ECUX1H104ZFN	CHIP 50V 0.1U	1		VR704		VRV0040B225	V.RESISTOR	1	
				$oxed{\Box}$		VR705		VRV0040B105	V.RESISTOR	1	
	$oxedsymbol{oxed}$			<u> </u>			L				
	$\perp$		DIODES	<u> </u>			_				
D701		MA151K	DIODE	1				ļ		L	
D702	Щ	ERA91-02	DIODE	1			_				
D703	_	ERA34-10	DIODE	1		L		VEP06487A	MAIN C.B.A.	_	INCLUDING THE
		-		1				<u> </u>	(POWER, SERVO, AUDIO SYSTEM		SUB SYSTEMCONTROL
	<u> </u>	L		1_				<b>1</b>	CONTROL, SUB VIDEO)	<u> </u>	C.B.A. (VEP 06486A)
·	<b> </b> _		INTEGRATED CIRCUITS	1_			_				
IC701	L	AN2510S	IC	1		<b></b>	1			_	
	<u> </u>			1			1			_	
	<u> </u>			1			1	-		<u> </u>	
	<u>.                                    </u>		coils	<u> </u>				1		L	
L701	<u> </u>	EL:04D002	ωIL	1			<u> </u>	ļ		ļ	
L702	_	ELH5L313	COIL	1		<b> </b>	<u> </u>	-		<u> </u>	
	<u> </u>	<b>_</b>		<b>_</b>			1		CAPACITORS	<u> </u>	
	_			↓		C1001	<u> </u>	ECEA1CKAJ101	E.CAPACITOR 16V 100U	1	
	<b> </b>			<b> </b> -		C1002	<u> </u>		E.CAPACITOR 16V 100U	1	
P701	<u> </u>	VJP1599T	CONNECTOR (MALE) 6P	1		C1003	-	ECEAOJSJ151	E.CAPACITOR 6.3V 150U	1	
P702	<u>L</u>	VJ P1597T	CONNECTOR (MALE) 4P	1		C1004	1_	ECEAOJSJ151	E.CAPACITOR 6.3V 150U	1	
	<b>!</b>					C1005	_	ECEA1AU221	E.CAPACITOR 10V 220U	_1	
	<del> </del> _	<b>-</b>		<u> </u>		C1006	_	ECEA1ASJ101	E.CAPACITOR 10V 100U	1	
	<u> </u>		TRANSISTORS	_		C1007	_	ECEA1CKAJ101	E.CAPACITOR 16V 100U	1	
Q701	<b>L</b> _	2SB709	TRANSISTOR	1		C1008	1	ECEA1CKAJ101	E.CAPACITOR 16V 100U	1	
	<u> </u>					L	_				
	1	<u> </u>				L		<u> </u>	<u> </u>	Щ	<u></u>

Ref.No.		Part No.	Part Name 8	Decrinti	<u>ا</u>	cs	Remarks	Ref.No.	Part No.	Dant No.	n	inti-	P	Para 22
C1009		ECEA1EKA4R7	E. CAPACITOR	25V 4.	_	1	Relial KS	C2049	ECUX1E105JQM	Part Name	25V	1U	Pcs 1	Remarks
C1010		ECEA1EKA4R7	E. CAPACITOR		7U	1		C2049	ECUX1E104ZFN	CHIP	25V	0.10	1	
C1011			E. CAPACITOR	10V 10		1		C2051	ECUM1C474ZFM	CHIP		0.047U	1	
C1012			E. CAPACITOR	10V 10		1	***************************************	C2052	ECUX1E104ZFN	CHIP	25V	0.1U	1	
C1013		ECEA1AKA330	E. CAPACITOR	10V 3	3U	1		C2053	ECEAOJKS470	E.CAPACITOR	6.3V	47U	1	
C1014		ECEA1AKS330	E. CAPACITOR	10V 3	3U	1		C2054	ECEAOJKS470	E.CAPACITOR	6.3V	47U	1	
C1015		ECSE1 EY474Z	T.CAPACITOR	25V 0.4	7U	1		C3501	ECUX1C105ZF	СНІР	16V	1U	1	
C1016		ECUX1E473FN	CHIP	25V 0.04	7U	1		C3510	ECEAOJK221	E.CAPACITOR	6.3V	220U	1	
C1017		ECUX1E223ZFN	CHIP	25V 0.02	2U	1		C3511	ECEAOJK221	E.CAPACITOR	6.3V	220U	1	
C1018		ECUX1C1052F	CHIP	16V	1U	1		C3512	ECUX1E220JCM	CHIP	25V	22P	1	
C1019		ECUX1C105ZF	CHIP		1U	1		C3514	ECUX1E103ZFM	CHIP	25V	0.010	1	
C1020			CHIP		OP	1		C3515	ECEA1AKS470	E.CAPACITOR	10V	47U	1	
C1021			CHIP		2P	1		C3516	ECUX1E103ZFM	CHIP	25V	0.010	1	
C1022		ECUX1H56OKBM	CHIP		6P	1		C3517	ECUX1E1032FM	CHIP	25V	0.010	1	
C1023		ECUX1C105ZF	CHIP		1U	1		C3518	ECEAOJKS470	E.CAPACITOR	6.3V	47U	1	
C1024		ECUX1E104ZFN	CHIP	25V 0.	_	1		C3519	ECUX1E104ZFN	CHIP	25V	0.10	1	
C1025 C1026		ECUX1E473FN	CHIP	25V 0.04		-1		C3522	ECUX1E103ZFM	CHIP	25V	0.010	1	
C1026		ECUX1H472KBN ECUX1E104ZFN	CHIP	50V 470 25V 0.	-+	1		C3526	ECUX1E104ZFN	CHIP	25V	0.10	1	
C1028		<del></del>	CHIP	50V 270		1		C3527 C3528	ECUX1E104ZFN ECUX1E104ZFN	CHIP CHIP	25V	0.10	1	
C1029		ECUX1H332KBN	CHIP	50V 270		1		C3520	ECOV1H104JZ	P.CAPACITOR	25V 50V	0.10	1	
C1029		ECUX1C105ZF	CHIP		1U	1		C3530	ECUX1E104ZFN	CHIP	25V	0.1U	1	<u> </u>
C1030		ECUX1C1052F	CHIP	*	1U	1		C3531 C3532	ECUX1E1042FN ECUX1E105JCM	CHIP	25V	1U	1	
C1032		ECUX1C1052F	CHIP		10	1		C3532	ECCF1H15OJC	C.CAPACITOR	50V	15P	1	
C1033		ECUX1C1052F	CHIP		1U	1		C3534	ECQV1H104JZ	P.CAPACITOR	50V	0.10	1	
C1034		ECEAOJKA101	E. CAPACITOR		OU	1		C4001	EQP1562JZ	P.CAPACITOR	100V	5600P	1	<u> </u>
C1035			E. CAPACITOR		OU	1		C4002	ЕСОВІНЗЗЗЈН	P.CAPACITOR		0.033U	1	<b></b>
C2001		ECUM1H101JV	CHIP	50V 10		1		C4003	ECUX1H153KBN	CHIP		0.015U	1	
C2002		ECUM1H101JV	CHIP	50V 10	ЮP	1		C4004	ECUX1H472KBM	CHIP	50V	4700P	1	
C2003		ECUX1E103ZFM	СНІР	25V 0.0	)1U	1		C4006	ECUX1E332KBM	CHIP	25V	3300P	1	
C2004		ECUX1H4732FN	CHIP	50V 0.04	17U	1		C4007	ECEA1HKL010	E.CAPACITOR	50V	1 <b>U</b>	1	
C2005		ECEAOJKS470	E. CAPACITOR	6.3V 4	17U	1		C4008	ECUX1H333ZFN	CHIP	50V	0.033U	1	
C2006		ECEAOJKS470	E. CAPACITOR	6.3V 4	17U	1		C4009	ECEAOJKS330	E.CAPACITOR	6.3V	33U	1	
C2007		ECUX1H472KBN	CHIP	50V 470	OP	1		C4010	ECEA1HKK010	E.CAPACITOR	50V	1U	1	
C2009		ECEAOJKS220	E. CAPACITOR	6.3V 2	22U	1		C4011	ECUX1H822KBN	CHIP	50V	8200P	1	
C2010		ECEAOJKS220	E. CAPACITOR	6.3V 2	22U	1		C4012	ECEAOJKS220	E.CAPACITOR	6.3V	22U	1	
C2011		ECUX1H473ZFN	CHIP	50V 0.04	17U	1		C4013	ECEA1HKK010	E.CAPACITOR	50V	1U	1	
C2012		ECUX1E102KBM	CHIP	25V	1K	1		C4014	ECUM1H271KBN	CHIP	50V	270P	1	
C2013		ECUX1H471KBM	CHIP	50V 47	OK	1		C4015	ECEAOJKS470	E.CAPACITOR	6.3V	47U	1	
C2014		ECEA1VSN2R2	E. CAPACITOR	35V 2.	2U	1		C4016	ECEA1CKS470	E.CAPACITOR	16V	47U	1	
C2015		ECUX1C1052F	CHIP	16V	1U	1		C4017	ECEA1CKS220	E.CAPACITOR	16V	22U	1	
C2016		ECUX1C1052F	CHIP	16V	1U	1		C4018	ECEAOJKS330	E.CAPACITOR	6.3V	33U	1	
C2017		ECUX1E102KBM	CHIP	25V 100	ЮP	1		C4019	ECEA1HKK010	E.CAPACITOR	50V	1U	1	
C2018		ECUX1E102KBM	CHIP	25V 100	OP	1		C4020	ECUX1H333ZFN	CHIP	50V	0.033U	1	
C2019		ECEAOJKS330	E. CAPACITOR		33U	1		C4021	ECUX1H273KBN	CHIP	50V	0.027U	1	
C2020		ECUX1H82OJCM	E. CAPACITOR		32P	1		C4024	ECEAOJKS220	E.CAPACITOR	6.3V	22U	1	
C2021		ECUX1C105ZF	E. CAPACITOR		1U	1		C4025	ECEA1CKS220	E.CAPACITOR	16V	22U	1	
C2022			E. CAPACITOR		1U	1		C4026	ECEAOJKS220	E.CAPACITOR	6.3V	22U	1	
C2023		ECUX1H333ZFN	<del></del>	50V 0.03		1		C4027	ECUX1H682KBN	CHIP	50V	6800P	1	
C2025		ECEA1CKS100 ECEA0JKA101	E. CAPACITOR		OOU	1		C4028	ECEA1CKS100	E.CAPACITOR	16V	100	1	<b></b>
C2026	—	ECEAOJKA101	E. CAPACITOR E. CAPACITOR		ou	1		C4029 C4030	ECUX1H153KBN ECEA1AKS470	CHIP E.CAPACITOR	10V	0.015U 47U	1	
C2027		ECUX1H472KBM	1	50V 470		1		C4030		CHIP	50V		1	
C2028		ECUX1C1052F	E. CAPACITOR		1U	1		C4031 C4032	ECUX1H103ZFN ECEA1HSN010	E.CAPACITOR	50V	0.01U 1U	1	
C2029			E. CAPACITOR	25V 100		1		C4032		E.CAPACITOR	50V	10	1	
C2030		ECUX1E104ZFN	CHIP		1U	1		C4033	ECEAOJKS101	E.CAPACITOR	6.3V	100U	1	
C2031	_		CHIP	16V 0.4		1		C4035	ECUX1H391KBM	CHIP	50V	390P	1	
C2032		ECUX1E103ZFM	CHIP	25V 0.0	-	1		C4036	ECEAOJKS101	E.CAPACITOR	6.3V	100U	1	
C2033		ECUX1C105ZF	CHIP		1U	1		C4037		E.CAPACITOR	25V	4.7U	1	
C2034		ECUM1H101JV	CHIP	50V 10	$\rightarrow$	1		C4038		E.CAPACITOR	10V	33U	1	
C2035		ECUX1E102KBM	CHIP	25V 100		1		C4039	ECUX1H472KBM	CHIP	50V	4700P	1	
C2036	_	ECUX1C105ZF	CHIP		1U	1		C4040	ECUX1E151JVM	CHIP	25V	150P	1	
C2036			CHIP	25V O.	$\rightarrow$	1		C6001	ECUX1E103ZFM	CHIP	25V	0.01U	1	
C2037			E. CAPACITOR	6.3V 4	17U	1		C6002	ECEAOJKS470	E.CAPACITOR	6.3V	<b>4</b> 7U	1	
C2038			E. CAPACITOR	6.3V 3	3TU	1		C6003		TRIMMER			1	
C2039	_	ECEAOJKS330	E. CAPACITOR	6.3V 3	3U	1		C6004	ECUX1E330JCM	СНІР	25V	33P	1	
C2040	_	ECUX1H103ZFN	CHIP	50V 0.0	1U	1		C6005	ECUX1E1032FM	CHIP	25V	0.01U	1	
C2041	_	ECUX1E104ZFN	CHIP	25V 0.	1U	1		C6006	ECUX1E1032FM	CHIP	25V	0.010	1	
C2042	_	ECEAOJKA101	E. CAPACITOR	6.3V 10	OU	1		C6007	ECUX1E1032FM	CHIP	25V	0.010	1	
C2043		ECUX1C1052F	CHIP	16V	1U	1		C6008	ECUX1E104ZFN	CHIP	25V	0.1U	1	
C2044		ECUX1E104ZFN	CHIP	25V 0.	1U	1		C6009	ECEAOJKA470	E.CAPACITOR	6.3V	47U	1	
C2045		<del></del>	P.CAPACITOR	50V 0.03		1		C6010	ECUX1E1032FM	CHIP	25V	0.01U	1	
C2046			CHIP	25V 0.0	1U	1		C6011	ECEA1AKS220	E.CAPACITOR	10V	22U	1	
C-10 47		ECUX1C105ZF	CHIP		1U	1		C6012	ECEA1AKS220	E.CAPACITOR	10V	22U	1	
C2047					111	1		C6013	ECEA1CKK100	E.CAPACITOR	16V	10U	1	
C2047		ECUX1E105JCM	CHIP	25V	1U			C6013	DOMITORATOR	DIGITION				

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.		Part No.	Part Name & Description	PCs	Remarks
C6014	ECUX1C105ZF	CHIP 16V 1U	1						_	
C6015	ECUX1C105ZF	CHIP 16V 1U	1						_	<u>.</u>
C6016	ECUX1E220JCM ECUX1E220JCM	CHIP 25V 22P CHIP 25V 22P	1					COILS	$\vdash$	
C6018	ECUX1C105ZF	CHIP 16V 1U	1		L1001		ELC06D005	COIL 47UH	1	
C6019	ECEA1CKS470	E.CAPACITOR 16V 47U	1		11002		ELC08D038	COIL 180UH	1	<b>+</b>
C6020	ECUX1E104ZFN	CHIP 25V 0.1U	1		11003		VLQ0129	COIL 300UH	1	
C6021	ECUX1E104ZFN	CHIP 25V 0.1U	1		L1004		ELCO8DO25	COIL 600UH	1	
C6022	ECUX1E104ZFN	CHIP 25V 0.1U	1		1.1005	_	ELC06D013	COIL 33UH	1	<del> </del>
C6023		CHIP 25V 0.1U P.CAPACITOR 50V 0.1U	1		11006		VLQEL05F390K	COIL 39UH	1	
C6901	<del></del>	P. CAPACITOR 50V 0.1U CHIP 16V 1U	1		L1008 L1009		ELEPG221KA ELCO4DOO6	COIL 220UH	1	•
C6902	ECUX1C105ZF	CHIP 16V 1U	1		11010		ELEPG221KA	COIL 1200H	1	<del>                                     </del>
					1.1011		VLQEL04F101K		1	-
					L3501		VLQEL04F101K	COIL 100UH	1	
<b></b>		DIODES			L3502		VLQELO4F101K	COIL 100UH	1	
D1001 D1002		DIODE	1		L3503		VLQELO4F101K	COIL 100UH	1	<del></del>
D1002		DIODE	1		L3504 L3505		VLQ0163K101	COIL 100UH	1	
D1004		DIODE	1		L3506		VLQELO4F101K VLQELO5F101K	COIL 100UH	1	
D1005		DIODE	1		1.4001		VLQELO5F101K	COIL 1000H	1	-
D1006		DIODE	1		14002	$\overline{}$	ELIMR822JB	TRANSFORMER	1	
D1007	MA141A	DIODE	1		L4003		ELTMR153KB	TRANSFORMER	1	
D1008		DIODE	1		14004	_	VLQEL05F221K	COIL 220UH	1	
D1009		DIODE	1		1.6001		VLQ0163K390	COIL 39UH	1	
D1011 D2001		DIODE	1		L6002	-	VLQELO5F101K	COIL 100UH	1	
D2002		DIODE	1		<u> </u>	-			-	
D2003		DIODE	1					CONNECTORS	_	
D2005	MA141WK	DIODE	1		P1002		VJS2137	CONNECTOR	1	
D2006	MA141WK	DIODE	1		P1011		VJP1597T	CONNECTOR (MALE)	1	
D2007	MA141WK	DIODE	1		P2001	$\rightarrow$	VJS2247	CONNECTOR	1	
D2009 D2011		DIODE	1		P3501	-	VJS2248	CONNECTOR	1	
D4001		DIODE	1		P3502 P3503		VJS2233 VJP2237	CONNECTOR (MALE)	1	
D4002		DIODE	1		P3504		VJP2272	CONNECTOR (MALE)  CONNECTOR (MALE)	1	
D4003		DIODE	1		P4001	_	VJP2261	CONNECTOR (MALE)	1	
D4004	MA141K	DIODE	1		P4002		VJP2265	CONNECTOR (MALE)	1	
D6001	MA121	DIODE	1		P6001		VJP2271	CONNECTOR (MALE)	1	
D6002		DIODE	1		P6002	$\overline{}$	VJP2262	CONNECTOR (MALE)	1	
D6003		DIODE	1		P6003		VJS2317	CONNECTOR	1	*****
D6004 D6010	<del></del>	DIODE	1		P6004	-	VJS2245	CONNECTOR	1	
D6012		DIODE	1		P6005 P6006	-	VJP2272 VJP2271	CONNECTOR (MALE) CONNECTOR (MALE)	1	
D6013		DIODE	1		P6007		VJP2271	CONNECTOR (MALE)	1	
D6017	MA141K	DIODE	1		P6008	_	VJP2262	CONNECTOR (MALE)	1	
D6019	MA141K	DIODE	1		P6009		VJP2271	CONNECTOR (MALE)	1	
D6022	MA141A	DIODE	1		P6010		VJP2272	CONNECTOR (MALE)	1	
D6025	<del></del>	DIODE	1		P6011		VJP2262	CONNECTOR (MALE)	1	
D6026 D6027		DIODE	1							
D6901		DIODE	1		<b>———</b>			TRANSISTORS		
D6902		DIODE	1		Q1001		XN1501	TRANSISTOR	1	
					Q1002		2SB956	TRANSISTOR	1	
			L		Q1003	_	2SD1526	TRANSISTOR	1	
TO1 001		INTEGRATED CIRCUITS			Q1004	-	2SB956	TRANSISTOR	1	
IC1001 IC1002	BA6149LS UN102	IC	1		Q1005 Q2001	-	2SB956 2SD1819	TRANSISTOR TRANSISTOR	1	(Q,R)
IC1003	~	IC	1		Q3501	$\rightarrow$	2SB1218	TRANSISTOR	1	(Q,R)
IC1004	~	IC	1		Q3502	_	2SB1218	TRANSISTOR	1	
IC2001	MN67461VDJF	IC	1		Q3507	-	2SB970	TRANSISTOR	1	
IC2002		IC	1		Q3510		2SB1218	TRANSISTOR	1	
IC2005		IC	1		Q3511	$\rightarrow$	XN4601	TRANSI STOR	1	
IC3501 IC4001		IC	1		Q3512	$\rightarrow$	XN4601	TRANSISTOR	1	
1C4001 1C4002	UPC1513G UPC2300G	IC IC	1		Q3513 Q3515	_	2SC3931 2SB970	TRANSI STOR TRANSI STOR	1	
IC6001		IC	1		Q3515 Q3516	-+	2SB970 2SB970	TRANSISTOR	1	
IC6002	NJM2903M	IC	1		Q3517	-+	2SD1819	TRANSISTOR	1	(Q,R)
IC6003		IC	1		Q3521	-	2SC3931	TRANSISTOR	1	
IC6004		IC	1		Q3523		2SD1819	TRANSI STOR	1	(Q,R)
106005		IC	1		Q4001	_		TRANSISTOR	1	
106006		IC	1		Q4002	$\rightarrow$		TRANSISTOR		(Q,R)
106007	UPD4094BG	IC	1		Q4003 Q4005		2SD1819 2SD1819	TRANSISTOR TRANSISTOR	-	(Q,R) (Q,R)
	+		$\vdash$		Q4006	-	2SB1219	TRANSISTOR		(Q,R)
	<del> </del>		$\vdash$			1				
1	1									

Ref.No.	ļ	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name	& Descr	iption	PC	s Remarks
Q4007	<u> </u>	2SD1823	TRANSISTOR	1	722	R1027	ERJ3GEYJ105	CHIP	1/20W	1M	] :	i
Q4009	_	2SD1819	TRANSISTOR	$\rightarrow$	(Q,R)	R1028	ERJ3GEYJ272	CHIP	1/20W	2.7K	1	i
Q6001	L.	XN1501	TRANSISTOR	1		R1029	ERJ3GEYJ104	CHIP	1/20W	100K		1
Q6003	⊢	2SD1819	TRANSISTOR		(Q,R)	R1030	ERJ3GEYJ472	CHIP	1/20W	4.7K		l .
Q6004	-	2SB970	TRANSISTOR	1		R1031	ERJ3GEYJ330	CHIP	1/20W	33		L Company
Q6005	├-	2SD1819	TRANSISTOR .	1	(Q,R)	R1032	ERJ3GEYJ821	CHIP	1/20W	820	1	L L
	├			+		R1034	ERJ8GCYJ560	CHIP	1/8W	56		<del></del>
	-			-		R1035	ERJ3GEYJ753	CHIP	1/20W	75K	1	l l
	├		COMBINATION PARTS	+-		R1036	ERJ3GEYJ273	CHIP	1/20W	27K	1	
QR1001		UN5111	TRANSISTOR-RESISTOR	1		R1037	VSF0059	FUSE			1	
QR1002		UN5111	TRANSISTOR-RESISTOR	1		R1038	ERJ3GEYJ105	CHIP	1/20W	1M	1	
QR1003	<del> </del>	UN5213	TRANSISTOR-RESISTOR	1		R1039 R1040	ERJ3GEYJ104	CHIP	1/20W	100K	1	
QR1004	-	UN5213	TRANSISTOR-RESISTOR	1		R1040	ERJ3GEYJ102 ERJ3GEYJ102	CHIP	1/20W 1/20W	1K	1	
QR2001	-	XN4215	TRANSISTOR-RESISTOR	1	· · · · · · · · · · · · · · · · · · ·	R2001	ERJ3GEYJ102	CHIP	1/20W	1K	1	+
QR2002	<b>†</b>	UN5113	TRANSISTOR-RESISTOR	1	***	R2002	ERJ3GEYJ102	CHIP	1/20W	1K	1	+
QR2003		UN5213	TRANSISTOR-RESISTOR	1		R2003	ERJ3GEYJ392	CHIP	1/20W	3.9K	1	+
QR2004		UN5117	TRANSISTOR-RESISTOR	1		R2004	ERJ3GEYJ333	CHIP	1/20W	33K	1	
QR2005		UN5117	TRANSISTOR-RESISTOR	1		R2005	ERJ3GEYJ104	CHIP	1/20W	100K	1	
QR3501		UN5213	TRANSISTOR-RESISTOR	1		R2006	ERJ3GEYJ104	CHIP	1/20W	100K	1	<del></del>
QR3502		UN5213	TRANSISTOR-RESISTOR	1		R2007	ERJ3GEYJ154	CHIP	1/20W	150K	1	
QR3503		UN5212	TRANSISTOR-RESISTOR	1	7.00	R2008	ERJ3GEYOROO	CHIP	1/20W	0	1	
QR3504		UN5212	TRANSISTOR-RESISTOR	1		R2009	ERJ3GEYJ154	CHIP	1/20W	150K	1	
QR3505		UN5112	TRANSISTOR-RESISTOR	1		R2010	ERJ3GEYJ103	CHIP	1/20W	10K	1	<del>                                       </del>
QR3507		UN5213	TRANSISTOR-RESISTOR	1		R2011	ERJ3GEYJ683	CHIP	1/20W	68K	1	4
QR4001		UN5116	TRANSISTOR-RESISTOR	1	Pro-1,	R2012	ERJ3GEYJ334	CHIP	1/20W	330K	1	<del> </del>
QR4002		UN5212	TRANSISTOR-RESISTOR	1		R2013	ERJ3GEYJ154	CHI P	1/20W	150K	1	
QR6001		UN5213	TRANSISTOR-RESISTOR	1		R2014	ERJ3GEYJ473	CHIP	1/20W	47K	1	
QR6002		UN5213	TRANSISTOR-RESISTOR	1		R2015	ERJ3GEYJ183	CHIP	1/20W	18K	1	
QR6004	-	UN5214	TRANSISTOR-RESISTOR	1		R2016	ERJ3GEYOROO	CHIP	1/20W	0	1	-
QR6005	$\overline{}$	UN5113	TRANSISTOR-RESISTOR	1		R2017	ERJ3GEYJ103	CHIP	1/20W	10K	1	
QR6006	_	UN5115	TRANSISTOR-RESISTOR	1		R2018	ERJ3GEYJ471	CHIP	1/20W	470	1	<del></del>
QR6007 QR6008		UN5213	TRANSISTOR-RESISTOR	1		R2019	ERJ3GEYJ105	CHIP	1/20W	1M	1	
2R6009		UN5213 XN4316	TRANSISTOR-RESISTOR	1		R2020	ERJ3GEYJ222	CHIP	1/20W	2.2K	1	<del>                                     </del>
2R6009 2R6011		XN4316 UN5217	TRANSISTOR-RESISTOR TRANSISTOR-RESISTOR	1	4	R2021	ERJ3GEYOROO	CHIP	1/20W	0	1	
2R6011		UN5217 UN5217	TRANSISTOR-RESISTOR	1		R2022	ERJ3GEYJ271	CHIP	1/20W	270	1	
2R6013		UN5217 UN521E	TRANSISTOR-RESISTOR TRANSISTOR-RESISTOR	1		R2023 R2024	ERJ3GEYOROO	CHIP	1/20W	0	1	
QR6015		UN5112	TRANSISTOR-RESISTOR	1		R2024 R2025	ERJ3GEYJ152 ERJ3GEYJ682	CHIP	1/20W	1.5K	1	
QR6016		UN5212	TRANSISTOR-RESISTOR	1		R2025	ERJ3GEYJ682 ERJ3GEYOROO	CHIP	1/20W 1/20W	6.8K O	1	
2R6018		XN1213	TRANSISTOR-RESISTOR	1		R2028	ERJ3GEYJ103	CHIP	1/20W	10K	1	
2R6020	~	UN5217	TRANSISTOR-RESISTOR	1		R2029	ERJ3GEYJ105	CHIP	1/20W	10K	1	
2R6021	_	UN5214	TRANSISTOR-RESISTOR	1		R2030	ERJ3GEYJ103	CHIP	1/20W	10K	1	
2R6022		UN5213	TRANSISTOR-RESISTOR	1		R2031	ERJ3GEYJ273	CHIP	1/20W	27K	1	
QR6901		UN2114	TRANSISTOR-RESISTOR	1		R2032	ERJ3GEYJ333	CHIP	1/20W	33K	1	
				П		R2033	ERJ3GEYJ272	СНІР	1/20W	2.7K	1	
						R2034	ERJ3GEYOROO	CHIP	1/20W	0	1	
						R2035	ERJ3GEYJ154	CHIP	1/20W	150K	1	
	$\Box$		RESI STORS			R2036	ERJ 3GEYOROO	СНІР	1/20W	0	1	
1001	-+	ERJ3GEYJ222	CHIP 1/20W 2.2K	1		R2037	ERJ3GEYJ473	СНІР	1/20W	47K	1	
1002		ERJ3GEYJ103	CHIP 1/20W 10K	1		R2038	ERJ3GEYJ153	СНІР	1/20W	15K	1	
1003		ERJ3GEYJ334	CHIP 1/20W 330K	1		R2039	ERJ3GEYJ104	СНІР	1/20W	100K	1	
1004	$\overline{}$	ERJ3GEYJ154	CHIP 1/20W 150K	1		R2040	ERJ3GEYOROO	CHIP	1/20W	0	1	
1005		ERJ3GEYJ563	CHIP 1/20W 56K	1		R2041	ERJ3GEYJ334	CHIP	1/20W	330к	1	
1006		ERJ3GEYJ102	CHIP 1/20W 1K	1		R2042	ERJ3GEYJ103	CHIP	1/20W	10K	1	
1007		ERJ3GEYJ391	CHIP 1/20W 390	1		R2043	ERJ3GEYJ102	CHIP	1/20W	1K	1	
1008		ERJ8GCYJ821	CHIP 1/8W 820	1	· · · · · · · · · · · · · · · · · · ·	R2044	ERJ 3GEYOROO	CHIP	1/20W	0	1	
1009	<del></del> +	ERJ3GEYJ391	CHIP 1/20W 390	1		R2045	ERJ3GEYOROO	CHIP	1/20W	0	1	
1010	_		CHIP 1/8W 820	1		R2046	ERJ 3GEYOROO	CHIP	1/20W	0	1	
1011	$\rightarrow$		CHIP 1/20W 390	1		R2047	ERJ3GEYJ471	CHIP	1/20W	470K	1	
1012	-		CHIP 1/8W 820	1		R2048	ERJ3GEYJ221	CHIP	1/20W	220K	1	
1013	-		CHIP 1/20W 390	1		R2049	ERJ3GEYJ333	CHIP	1/20W	33K	1	
1014	-	ERJ8GCYJ681	CHIP 1/8W 680	1		R2050	ERJ3GEYJ333	CHIP	1/20W	33K	1	
1016	$\overline{}$	ERJ3GEYJ122	CHIP 1/20W 1.2K CHIP 1/20W 18K	1		R2051	ERJ3GEYJ333	CHIP	1/20W	33K	1	
1017		ERJ3GEYJ183 ERJ3GEYJ273	CHIP 1/20W 18K CHIP 1/20W 27K	1		R2052	ERJ3GEYJ392	CHIP	1/20W	3.9K	1	
1018	-+	ERJ3GEYJ183	CHIP 1/20W 27K  CHIP 1/20W 18K	1	<del> </del>	R2053 R2054	ERJ3GEYJ682 ERJ3GEYJ562	CHIP	1/20W	6.8K	1	
1019	-		CHIP 1/20W 18K	1		R2054 R2055			1/20W	5.6K	1	
1020			CHIP 1/20W 18K	1			ERJ3GEYJ184	CHIP	1/20W	180K	1	
1020	-+		CHIP 1/20W 47K CHIP 1/20W 100K	1		R2056 R2057	ERJ3GEYJ221	CHIP	1/20W	220K 1000K	1	
1022			CHIP 1/20W 100K	1	· · · · · · · · · · · · · · · · · · ·	R3501	ERJ3GEYJ392	C.RESISTOR CHIP			1	
1023			CHIP 1/20W 820K	1		R3501 R3502	ERJ3GEYJ392 ERJ3GEYJ392	CHIP	1/20W 1/20W	3.9K	1	<del></del>
1024	-	ERJ3GEYJ104	CHIP 1/20W 100K	1		R3503	ERJ3GEYJ392 ERJ3GEYJ103	СНІР	1/20W		1	
1025	-+		CHIP 1/20W 100K	1		R3503	ERJ3GEYJ103 ERJ3GEYJ103	CHIP	1/20W	10K	1	
1026	-+	ERJ3GEYJ682	CHIP 1/20W 1M	1		R3517	ERJ3GEYJ472	CHIP	1/20W	4.7K	1	
-	-+		- +/ 20m OOK	+ +		1	JUN 30E134/2		1, COW	7.1.5		
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Ref.No.	<u> </u>	Part No.	_	t Name & Descr		Pcs	<del> </del>	Ref.No.		Part No.	Part Name	& Descr	iption	PCs	Remarks
R3519		ERJ3GEYJ472	CHIP	1/20W	4.7K	1	<del></del>	R6005		ERJ3GEYJ473	CHIP	1/20W	47K	1	ı Taranınının barınının barınının barınının barınının barınının barınının barınının barının barının barının ba
R3520		ERJ3GEYJ332	CHIP	1/20W	3.3K	1		R6006		ERJ3GEYJ273	CHIP	1/20W	27K	1	
R3521 R3522	-	ERJ3GEYJ821	CHIP	1/20W	820	1		R6007	$\rightarrow$	RJ3GEYJ124	CHIP	1/20W	120K	1	
R3522		ERJ3GEYJ821	CHIP	1/20W	820	1		R6008		ERJ3GEYJ334	CHIP	1/20W	330K	1	
R3527	-	ERJ3GEYJ102 ERJ3GEYOROO	CHIP	1/20W	1K	1	<del></del>	R6009		RJ3GEYJ823	CHIP	1/20W	82K	1	- ma-
R3528		ERJ3GEYJ560	CHIP	1/20W	0	1		R6010	-	RJ3GEYJ473	CHIP	1/20W	47K	1	<del> </del>
R3529		ERJ3GEYJ220	CHIP	1/20W	56	1	<del></del>	R6011	-	RJ3GEYJ563	CHIP	1/20W	56K	1	<del> </del>
R3530		ERJ3GEYJ821	CHIP	1/20W 1/20W	820	1		R6012	$\rightarrow$	RJ3GEYJ823	CHIP	1/20W	82K	1	+
R3531		ERJ3GEYJ821	CHIP	1/20W	820	1		R6013	-	RJ3GEYJ104	CHIP	1/20W	100K	1	
R3532		ERJ3GEYJ152	CHIP	1/20W	1.5K	1		R6014	-	RJ3GEYJ681	CHIP	1/20W	680	1	
R3533	-	ERJ3GEYJ472	CHIP	1/20W	4.7K	1		R6015	-	RJ3GEYJ103	CHIP	1/20W	10K	1	
R3534		ERJ3GEYJ681	CHIP	1/20W	680	1		R6016 R6017	_	RJ3GEYJ104	CHIP	1/20W	100K	1	
R3535		ERJ3GEYJ391	CHIP	1/20W	390	1		R6017	-	RJ3GEYJ104	CHIP	1/20W	100K	1	
R3536		ERJ3GEYJ182	CHIP	1/20W	1.8K	1		R6020		RJ3GEYJ103 RJ3GEYJ563	CHIP	1/20W 1/20W	10K	1	
R3537		ERJ3GEYJ102	CHIP	1/20W	1K	1		R6021		RJ3GEYJ102	CHIP	1/20W	56K	1	<del> </del>
R3542		ERJ3GEYJ472	CHIP	1/20W	4.7K	1	<del></del>	R6022		RJ3GEYJ102	CHIP	1/20W	1K	1	
R3543		ERJ3GEYJ472	CHIP	1/20W	4.7K	1		R6023		RJ3GEYJ101	CHIP	1/20W	100	1	
R3544		ERJ3GEYJ332	CHIP	1/20W	3.3K	1		R6024		RJ3GEYJ101	CHIP	1/20W	100	1	
R3545		ERJ3GEYJ682	CHIP	1/20W	6.8K	1		R6025	-	RJ3GEYJ223	CHIP	1/20W	22K	1	<del></del>
R3546		ERJ3GEYJ102	CHIP	1/20W	1K	1		R6026		RJ3GEYJ103	CHIP	1/20W	10K	1	
R3547		ERJ3GEYJ102	CHIP	1/20W	1K	1		R6027	-	RJ3GEYJ102	CHIP	1/20W	1K	1	
R3548		ERJ3GEYJ331	CHIP	1/20W	330	1		R6028	_	RJ3GEYJ102	CHIP	1/20W	1K	1	
R3549		ERJ3GEYJ182	CHIP	1/20W	1.8K	1		R6029	-	RJ3GEYJ394	CHIP	1/20W	390K	1	
R3552		ERJ3GEYJ821	CHIP	1/20W	820	1	W	R6030		RJ3GEYJ473	CHIP	1/20W	47K	1	
R3559		ERJ3GEYJ102	CHIP	1/20W	1K	1		R6031	E	RJ3GEYJ102	CHIP	1/20W	1K	1	
R3563		ERJ3GEYOROO	CHIP	1/20W	0	1		R6032	-	RJ3GEYJ102	CHIP	1/20W	1K	1	
R3564		ERJ3GEYJ393	CHIP	1/20W	39K	1		R6033	E	RJ3GEYJ102	CHIP	1/20W	1K	1	
R3565		ERJ3GEYJ393	CHIP	1/20W	39K	1		R6034	E	RJ3GEYJ102	CHIP	1/20W	1K	1	
R3566		ERJ3GEYJ154	CHIP	1/20W	150K	1		R6035	E	RJ3GEYJ102	CHIP	1/20W	1K	1	
R4001		ERJ3GEYJ100	CHIP	1/20W	10	1		R6036	E	RJ3GEYJ102	CHIP	1/20W	1K	1	
R4002		ERJ3GEYJ153	CHIP	1/20W	15K	1		R6037	E	RJ3GEYJ473	CHIP	1/20W	47K	1	
R4003		ERJ3GEYJ102	CHIP	1/20W	1K	1		R6038	E	RJ3GEYJ473	CHIP	1/20W	47K	1	
R4004	-	ERJ3GEYJ183	CHIP	1/20W	18K	1		R6039	E	RJ3GEYJ333	CHIP	1/20W	33K	1	
R4005		ERJ3GEYJ151	CHIP	1/20W	150	1		R6040	E	RJ3GEYJ333	CHIP	1/20W	33K	1	
R4006		ERJ3GEYJ184	CHIP	1/20W	180K	1		R6041		RJ3GEYJ333	CHIP	1/20W	33K	1	
R4007		ERJ3GEYJ332	CHIP	1/20W	3.3K	1		R6042	-+-	RJ3GEYJ473	CHIP	1/20W	47K	1	
R4009	+	ERJ3GEYJ181	CHIP	1/20W	180	1		R6043	<del></del>	RJ3GEYJ683	CHIP	1/20W	68K	1	
14010	-+	ERJ3GEYJ122	CHIP	1/20W	1.2K	1		R6044	_	RJ3GEYJ683	CHIP	1/20W	68K	1	
34012	_	ERJ3GEYJ472 ERJ3GEYJ472	CHIP	1/20W 1/20W	4.7K	1		R6045		RJ3GEYJ391	CHIP	1/20W	390	1	
14012	$\overline{}$	ERJ3GEYJ153	CHIP	1/20W	4.7K	1		R6046	$\rightarrow$	RJ3GEYJ102	CHIP	1/20W	1K	1	
14014		ERJ3GEYJ122	CHIP	1/20W	15K 1.2K	1		R6047	_	RJ3GEYJ683	CHIP	1/20W	68K	1	
14015	-+	ERJ3GEYJ100	CHIP	1/20W	10	1		R6048 R6049	-	RJ3GEYJ184	CHIP	1/20W	180K	1	
4016	-+	ERJ3GEYJ181	CHIP	1/20W	180	1		R6050	_	RJ3GEYJ102	CHIP	1/20W	1K	1	
4017		ERJ3GEYJ472	CHIP	1/20W	4.7K	1		R6051	-	RJ3GEYJ102	CHIP CHIP	1/20W	1K	1	
4018		ERJ3GEYJ105	CHIP	1/20W	1M	1		R6052	-	RJ3GEYJ102 RJ3GEYJ104	CHIP	1/20W 1/20W	1K	1	
4025		ERJ3GEYJ273	CHIP	1/20W	27K	1		R6053	_	RJ3GEYJ104	CHIP	1/20W	100K 100K	1	
4026	-+	ERJ3GEYJ333	CHIP	1/20W	33K	1		R6054			CHIP	1/20W		$\rightarrow$	
4027	-	ERJ3GEYJ561	CHIP	1/20W	560	1		R6055		RJ3GEYJ104	CHIP	1/20W	10K 100K	1	
4028		ERJ3GEYJ333	CHIP	1/20W	33K	1		R6056		RJ3GEYJ104	CHIP	1/20W	100K	1	
4029	- 1	ERJ3GEYJ103	СНІР	1/20W	10K	1		R6057	-		CHIP	1/20W	10K	1	
4032	ī	ERJ3GEYJ272	CHIP	1/20W	2.7K	1		R6058	_		CHIP	1/20W	10K	1	
4033		ERJ3GEYJ272	CHIP	1/20W	2.7K	1		R6059	-		CHIP	1/20W	100K	1	
4035		ERJ3GEYJ101	CHIP	1/20W	100	1		R6060	_		CHIP	1/20W	10	1	
4036		RJ3GEYJ154	CHIP	1/20W	150K	1		R6061	$\rightarrow$		CHIP	1/20W	47K	1	
4037		ERJ3GEYJ273	CHIP	1/20W	27K	1		R6062	-		CHIP	1/20W	1.5K	1	
4038	ji	ERJ3GEYJ223	CHIP	1/20W	22K	1		R6063	_		CHIP	1/20W	8.2K	1	
4039		RJ3GEYJ393	CHIP	1/20W	39K	1		R6064	E	RJ3GEYJ472	CHIP	1/20W	4.7K	1	
4040	1	RJ3GEYJ681	CHIP	1/20W	680	1		R6065	EI	RJ3GEYJ472	CHIP	1/20W	4.7K	1	
4041		RJ3GEYJ472	CHIP	1/20W	4.7K	1		R6066	E	U3GEYJ104	CHIP	1/20W	100K	1	·
4042		RJ3GEYJ103	CHIP	1/20W	10K	1		R6067	E	U3GEYJ331	CHIP	1/20W	330	1	
4043		RJ3GEYJ333	СНІР	1/20W	33K	1		R6068	E	U3GEYJ392	CHIP	1/20W	3.9к	1	
4044	_	RJ3GEYJ104	CHIP	1/20W	100K	1		R6069	E	U3GEYJ152	CHIP	1/20W	1.5K	1	
4045		RJ3GEYJ224	CHIP	1/20W	220K	1		R6070	E	U3GEYJ123	CHIP	1/20W	12K	1	
4046	$\overline{}$	RJ3GEYJ184	CHIP	1/20W	180K	1		R6071	Е	U3GEYJ184	CHIP	1/20W	180K	1	
4047	-+		CHIP	1/20W	12K	1		R6073	EI	U3GEYJ154	CHIP	1/20W	150K	1	
4048	-+	RJ3GEYJ104	CHIP	1/20W	100K	1		R6074	EF	J3GEYJ473	CHIP	1/20W	470K	1	
4049	$\rightarrow$ +	RJ3GEYJ473	CHIP	1/20W	47K	1		R6075	E	U3GEYJ102	CHIP	1/20W	1K	1	
4050	$\rightarrow$	RJ3GEYJ122	CHIP	1/20W	1.2K	1		R6076	E	J3GEYJ102	CHIP	1/20W	1K	1	
4051	$\neg$		CHIP	1/20W	1.2K	1		R6077	EF	U3GEYJ473	CHIP	1/20W	47K	1	
6001	$\rightarrow$		CHIP	1/20W	22K	1		R6078	EF	JJ3GEYJ393	CHIP	1/20W	39K	1	
6002			CHIP	1/20W	47K	1		R6079	_		C.RESISTOR	1/4W	1K	1	
6003	-+		CHIP	1/20W	1K	1		R6080	-		C.RESISTOR	1/4W	1K	1	
6004	→F	RJ3GEYJ103	CHIP	1/20W	10K	1		R6081	EF	DS2TJ102	C.RESISTOR	1/4W	1K	1	
						_		ļ	$\perp$						
	- 1								L_						

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name 8	Descr	iption	Pcs	Remarks
R6082	1	ERDS2TJ223	C.RESISTOR 1/4W 22K	1		C3049	ECUX1H333ZFN	CHIP		0.033U	1	
	$\vdash$		,			C3050	ECUX1E103ZFM	СНІР	25V	0.01U	1	
-	$\vdash$					C3051	ECEA1EKK3R3	E.CAPACITOR	25V	3.30	1	
			SWITCHS			C3052	ECEA1CKK100	E.CAPACITOR	16V	100	1	
W6001	-	EVQQFQO2K	SWITCH	1		C3053	ECEAOJKS220	E.CAPACITOR	6.3V	22U	1	· · · · · · · · · · · · · · · · · · ·
				1		C3054	ECEAORS220 ECEA1EKK3R3	E.CAPACITOR	25V	3.3U	1	
W6002	┢	EVQQFQ02K	SWITCH			ļ					-	
	-					C3055	ECEA1EKK2R2	E.CAPACITOR	25V	2.20	1	
	<b>⊢</b>					C3057	ECUX1H680JCM	СНІР	50V	68P	1	
	ļ		TRANSFORMARS			C3058	ECUX1C105ZF	CHIP	16V	1U	1	
1001	<u> </u>	ELL10R006	TRANSFORMAR	1		C3059	ECUX1C1052F	CHIP	16V	1U	1	
4001		EIQ7QF015Q	TRANSFORMAR	1		C3060	ECUM1H221KBV	CHIP	50V	220P	1	
4002	_	EI Q5QTOO3Q	TRANSFORMAR	1		C3061	ECUX1H560KBM	CHIP	50V	56P	1	
	1					C3063	ECUX1E270JCM	CHIP	25V	27P	1	
						C3065	ECUX1H390JCM	CHIP	50V	39P	1	
			VARIABLE RESISTORS			C3066	ECUX1H680JCM	CHIP	50V	68P	1	
R1001		EVM7NSX00B53	V.RESISTOR 5K	1		C3068	ECUX1E103ZFM	CHIP	25V	0.010	1	
R1002		EVM7NSX00B53	V.RESISTOR 5K	1		C3069	ECUX1E330JCM	CHIP	25V	33P	1	
R1003	_	EVM7NSX00B53	V. RESISTOR 5K	1		C3070	ECUX1H681KBM	CHIP	50V	680P	1	
R2001		<del></del>	V.RESISTOR 100K	1		C3071	ECEAOJKS470	E.CAPACITOR	6.3V	47U	1	
R4001		<del></del>	V. RESISTOR ZK	1		C3072	ECUX1E103ZFM	CHIP	25V		1	
R4001	+		V.RESISTOR 2A	1	M. B. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T.	C3072	ECUX1C1052F	CHIP	16V	1U	1	
R6001	+			1		C3075	ECUX1E103ZFM	CHIP	25V		1	
10001	-	EVM7NSW00B24	V.RESISTOR 20K	++		l		CHIP	25V	0.010	1	
	-	<del> </del>		$\vdash$		C3077	ECUX1E103ZFM				+	
<del></del>	-	-	ļ	-		C3078	ECUX1E103ZFM	CHIP	25V		1	
	-			ļ		C3079	ECUX1E103ZFM	CHIP	25V		1	
	_					C3080	ECUX1E151JVM	CHIP	25V	150P	1	
						C3081	ECUX1E103ZFM	CHIP	25V	0.01U	1	
			CRYSTAL OSCILLATORS			C3082	ECUX1H681KBM	CHIP	25V	680P	1	
(1001		VSX0136	CRYSTAL OSCILLATOR	1		C3083	ECUX1E103ZFM	CHIP	25V	0.01U	1	
(2001		VSX0154	CRYSTAL OSCILLATOR	1		C3084	ECUX1E103ZFM	CHIP	25V	0.010	1	
(6001		VSX0140	CRYSTAL OSCILLATOR	1		C3085	ECEAOJSJ151	E.CAPACITOR	6.3V	150U	1	
6002		VSX0249	CRYSTAL OSCILLATOR	1		C3086	ECUX1E103ZFM	CHIP	25V	0.010	1	
				1		C3087	ECEA1EKK3R3	E.CAPACITOR	25V	3.3U	1	
	1					C3088	ECUX1E103ZFM	CHIP	25V	0.010	1	
	+-			1		C3089	ECUX1E103ZFM	CHIP	25V	0.010	1	
	+-	<del>                                     </del>		<del> </del>		C3090	ECUX1E103ZFM	CHIP	25V	0.01U	1	
	+_	1ED02471B	LUMINANCE/CHROMINANCE	-		C3091	ECUX1H560JCM	CHIP	50V	56P	1	
*****	╀■.	VEP03471B		1			<del></del>	CHIP	25V		1	<del></del>
			C.B.A.	+		C3092	ECUX1E100CCM	<del>                                     </del>		10P	+-	+
				-		C3093	ECUX1E1032FM	CHIP	25V		1	<del></del>
	↓			ļ		C3094	ECUX1E1032FM	CHIP	25V	0.010	1	•
	1_					C3097	ECUX1E220JCM	CHIP	25V	22P	1	
						C3098	ECUX1E220JCM	CHIP	25V	22P	1	
	1_					C3102	ECUX1H560KBM	CHIP	50V	56P	1	
	1					C3105	ECUX1E220JCM	CHIP	25V	22P	1	
	1					C3106	ECUX1E104ZFN	CHIP	25V	0.1U	1	
	T					C3109	ECCF1H050CC	C.CAPACITOR	50V	5P	1	
	T		CAPACITORS			C8001	ECEAOJKS470	E.CAPACITOR	6.3V	47U	1	
3001	T	ECEA1CKK100	E. CAPACITOR 16V 10U	1		C8002	ECUX1E103ZFM	CHIP	25V	0.01U	1	
3002		ECUX1E103ZFM	CHIP 25V 0.01U	1		C8003	ECUX1E103ZFM	CHIP	25V	0.010	1	
3003	_	ECUX1E104ZFM	CHIP 25V 0.1U	1		C8004	ECUX1E103ZFM	CHIP	25V	0.010	1	
3004	+-	ECUX1E104ZFM	CHIP 25V 0.1U	1		C8005	ECUX1E332KBM	CHIP	25V	3320P	1	
3005	+-	ECUX1E1032FM	CHIP 25V 0.01U	1		C8006	ECEAOJKS470	E.CAPACITOR	6.3V	47U	1	
3006	+-	ECUX1E1032FM	CHIP 25V 0.01U	1		C8007	ECUX1E103ZFM	CHIP	25V	0.010	1	
	+-			+		I <del></del>		+	50V	68P	1	
3007	⊢-	ECUX1E1032FM	CHIP 25V 0.01U	1		C8009	ECUX1H680JCM	CHIP			1	<u> </u>
3008	+-	ECUX1E104ZFM	CHIP 25V 0.1U	1		C8010	ECUX1E103ZFM	CHIP	25V			
3009	+-	ECUX1H68OJCM	CHIP 50V 68P	1		C8011	ECUX1E103ZFM	CHIP	25V	0.010	1	<b></b>
3011	ـ	ECUX1E331KBM	CHIP 25V 33OP	1		C8012	ECUX1E103ZFM	CHIP	25V	0.010	1	<b></b>
3013	ـ	ECUX1E105JCM	CHIP 25V 1U	1		C8013	ECUX1E104ZFM	CHIP	25V	0.10	1	
3028	<u> </u>	ECUX1H82OJCM	CHIP 50V 82P	1		C8014	ECUX1E103ZFM	CHIP	25V		1	<del> </del>
3030	L	ECUX1H391KBM	CHIP 50V 390P	1		C8015	ECUM1H223ZFM	CHIP		O.022U	1	
3031	L	ECUX1H39OJCM	CHIP 50V 39P	1		C8016	ECUM1E2242FM	CHIP	25V	0.22U	1	
3033	$\perp$	ECUX1E220JCM	CHIP 25V 22P	1		C8017	ECUX1E1032FM	СНІР	25V	0.01U	1	
3034		ECUX1E22OJCM	CHIP 25V 22P	1		C8018	ECUX1E103ZFM	CHIP	25V	0.01U	1	
3035		ECUX1E1032FM	CHIP 25V 0.01U	1		C8019	ECUX1H472ZFM	CHIP	50V	4700P	1	
3036	$\top$	ECEAOJKS470	E.CAPACITOR 6.3V 47U	1		C8020	ECUX1H470JCM	CHIP	50V	47	1	
3037	_	ECUX1E103ZFM	CHIP 25V 0.01U	1		C8021	ECUX1E1032FM	CHIP	25V	0.01U	1	
3038	+	ECUX1H39OJCM	CHIP 50V 39P	1		C8022	ECEAOJKS470	E.CAPACITOR	6.3V	47U	1	
3040	+			1		C8022	ECEA1HKK2R2	E.CAPACITOR	50V	2.2U	1	
	-	ECUX1E101JCM		_		11		<del> </del>		10U	1	
3041	+-	ECSE1VY1042	T.CAPACITOR 35V 0.1U	1		C8024	ECEA1CKK100	E.CAPACITOR	16V 25V	1000P	1	<del></del>
3042	-	ECUX1H471KBM	CHIP 50V 470P	1		C8025	ECUX1E102KBM	<del>                                     </del>			1	<del></del>
3043	<u> </u>	ECUM1H271JV	CHIP 50V 270P	1		C8026	ECEA1CKS470	E.CAPACITOR	16V	47U	-	<del> </del>
3044	_	ECUX1E103ZFM	CHIP 25V 0.01U	1		C8027	ECUX1E103ZFM	CHIP	25V		1	
	1 _	ECEAOJSJ151	E.CAPACITOR 6.3V 150U	1		C8028	ECUX1H103ZFN	CHIP	50V	0.01U	1	+
3045			CHIP 50V 680P	1		C8029	ECEAOJSJ151	E.CAPACITOR	6.3V	150U	1	
3045 3046		ECUX1H681KBM	CHIF JOV GOOD			30027					+	
	F	ECUX1H681KBM ECUM1H221KBV	CHIP 50V 220P	1		C8030	ECUX1E103ZFM	CHIP	25V	0.01U	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C8031	ECUX1E102KBM	CHIP 25V 1000P	1					1	
C8032	ECUM1HO3OCCV	CHIP 50V 3P	1						
C8033	ECEAOGKS470	E.CAPACITOR 4V 47U	1						
C8034	ECUX1C105ZF	CHIP 16V 1U	1	******	DL3001	EFDCT124A13A	DELAY LINE	1	
C8035		CHIP 25V 0.01U	1					_	
C8036	ECUX1E103ZFM	CHIP 25V 0.01U	1					<u> </u>	
C8037	ECUX1E103ZFM	CHIP 25V 0.01U	1				FILTERS	H	
C8038 C8039	ECUX1E103ZFM	CHIP 25V 0.01U CHIP 25V 0.01U	1		FL3002	ELB4C005	FILTER	1	
C8040	ECUX1E103ZFM ECUX1E103ZFM	CHIP 25V 0.01U	1		FL3003 FL3004	VLF0599 VLF0599	FILTER FILTER	1	
C8041	ECUX1E103ZFM	CHIP 25V 0.01U	1		FL8001	VLF0625	FILTER	1	
C8042	ECUX1E1032FM	CHIP 25V 0.01U	1		FL8002	ELB4B025	FILTER	1	
C8043	<del></del>	CHIP 25V 0.01U	1		FL8003	ELB4B024	FILTER	1	
C8044	ECUX1C1052F	CHIP 16V 1U	1	· <del></del>	FL8004	ELB4B010	FILTER	1	
C8045	ECUXMH100JCV	CHIP 50V 10P	1		FL8010	VLF0550	FILTER	1	
C8050	ECUX1E1032FM	CHIP 25V 0.01U	1		FL8011	VLF0551	FILTER	1	
C8051	ECEAOJKS470	E.CAPACITOR 6.3V 47U	1						
C8052	ECUX1E103ZFM	CHIP 25V 0.01U	1						
C8053	ECUX1 E080CCM	CHIP 25V 8P	1				INTEGRATED CIRCUITS		
C8054	ECUX1E103ZFM	CHIP 25V 0.01U	1		IC3001	AN3217S	IC	1	
C8055	ECEA1EKK4R7	E. CAPACITOR 25V 4.7U	1		IC3002	AN33215	IC	1	
C8056	ECUX1E102KBM	CHIP 25V 1000P	1		IC8001	AN6367S	IC	1	
C8057	ECUX1H390JCM	CHIP 50V 39P	1		IC8002	MN6163AS	IC	1	
C8058 C8059	ECUX1E1032FM	E.CAPACITOR 10V 47U CHIP 25V 0.01U	1		IC8003	BA7131F	IC IC	1	
C8059	ECUX1E1032FM ECUX1H820JCM	CHIP 25V 0.01U CHIP 50V 82P	1		IC8004	MSTOO1MS MSW6989MS	IC IC	1	
C8061	ECEAOJKS470	E. CAPACITOR 6.3V 47U	1		1C8005 1C8006	MSM6989MS AN3592S	IC	1	
C8062	ECUX1E103ZFM	CHIP 25V 0.01U	1		10000	Pat 33723		-	
C8063	ECEAOJKS470	E.CAPACITOR 6.3V 47U	1						
C8064	ECUX1E270JCM	CHIP 25V 27P	1						
C8065	ECUX1E220JCM	CHIP 25V 22P	1						
C8066	ECUX1E103ZFM	CHIP 25V 0.01U	1						
C8067	ECUM1H1042FM	CHIP 50V 0.1U	1				COILS		
C8068	ECEA1EKK4R7	E.CAPACITOR 25V 4.7U	1		L3001	VLQELO5F101K	COIL 100UH	1	
C8069	ECEA1CKK100	E.CAPACITOR 16V 10U	1		L3002	VLQ0163K8R2	COIL 8.2UH	1	
C8070	ECUX1C105ZF	CHIP 16V 1U	1		L3003	VLQ0163K181	COIL 180UH	1	
C8071	ECEA1HKK010	E.CAPACITOR 50V 1U	1		13006	VLQEL05F101K	COIL 100UH	1	
C8072	ECUX1E103ZFM	CHIP 25V 0.01U	1		L3007	VLQEL04F101K	COIL 100UH	1	
C8073	ECUX1H223ZFN	CHIP 50V 0.022U	1		L3009	VLQ0163K151	COIL 150UH	1	
C8074 C8075	ECUX1E222KBM	CHIP 25V 2200P	1		L3010	VLQ0163K150	COIL 15UH	1	
C8075	ECUX1E103ZFM ECEA0JKS151	CHIP 25V 0.01U E.CAPACITOR 6.3V 150U	1		L3011 L3012	VLQ0163K270 VLQEL04F101K	COIL 270UH COIL 100UH	1	
C8077	ECUX1E222KEM	CHIP 25V 2200P	1		L3013	VLQ0163K121	COIL 120UH	1	
C8078	ECUX1E103ZFM	CHIP 25V 0.01U	1	~	13015	VLQ0163K121	COIL 1200H	1	
C8079	ECUX1E103ZFM	CHIP 25V 0.01U	1		13019	VLQ0187K180	COIL 180UH	1	
C8080	ECUX1E332KBM	CHIP 25V 3300P	1		L3020	VLQ0187K180	COIL 180UH	1	
C8081	ECUX1C105ZF	CHIP 16V 1U	1		L3021	VLQEL04F101K	COIL 100UH	1	
C8082	ECUM1H152KBV	CHIP 50V 1500P	1		L3024	VLQ0163K101	COIL 100UH	1	
C8083	ECEA1EKK4R7	E.CAPACITOR 25V 4.7U	1		L8001	VLQELO4F101K	COIL 100UH	1	
C8084	ECUX1C105ZF	CHIP 16V 1U	1		L8002	VLQEL05F681K	COIL 680UH	1	
C8085	ECUX1C1052F	CHIP 16V 1U	1		L8003	VLQEL04F101K	COIL 100UH	1	
C8086	ECUX1E331KBM	CHIP 25V 3300P	1		L8004	VLQ0163J121	COIL 120UH	1	
C8087	ECUX1E220JCM	CHIP 25V 22P	1		18005	VLQEL04F101K	COIL 100UH	1	
C8088	ECUX1E103ZFM	CHIP 25V 0.01U	1		18006	VLQ0163K150	COIL 15UH	1	
C8089	ECUX1E220JCM	CHIP 25V 22P	1		L8007	VLQEL04F101K	COIL 100UH	1	
C8090	ECUX1E103ZFM	CHIP 25V 0.01U	1		L8008	<del></del>	COIL 100UH	1	
C8091 C8092	ECUX1H680JCM ECUX1E103ZFM	CHIP 50V 68P CHIP 25V 0.01U	1		L8009	VLQ0163J680	COIL 68UH	1	
C8092	ECUX1E1032FM ECUX1E1032FM	CHIP 25V 0.01U CHIP 25V 0.01U	1	-	L8010 L8011	VLQEL05F101K VLQ0163K100	COIL 100UH	1	
C8093	ECSE1VY1042	T. CAPACITOR 35V 0.1U	1		18011		COIL 100H	1	
C8095	ECUX1E103ZFM	CHIP 25V 0.01U	1		L8013	VLQ0163K560	COIL 56UH	1	
C8096		CHIP 25V 0.01U	1		L8014		COIL 1000H	1	
1			T		L8015		COIL 100UH	1	
		_			18016	VLQ0163K330	COIL 33UH	1	
		DIODES			L8017	VLQ0163K100	COIL 10UH	1	
03001	MA121	DIODE	1						
03004	MA141K	DIODE	1						
03007	MA141WK	DIODE	1				CONNECTOR		
D3008	MA165	DIODE	1		P3001	VJS2237	CONNECTOR	1	
03009	MA165	DIODE	1		<u> </u>				
08001	MA141K	DIODE	1		1		TO NOT COOP ?		
D8002	MA141K	DIODE	1		03000	2004 000	TRANSISTORS		
D8005 D8006	MA 1 21	DIODE	1		Q3001	2SD1820	TRANSISTOR TRANSISTOR	1	
	MA141K	DIODE	+-		Q3002 Q3003	2SB1219 2SC3931	TRANSISTOR TRANSISTOR	1	<del></del>
	<del></del>		+-		+	2555751	***********		
,									

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name	& Descr	iption	Pcs	Remarks
23007	1	2SC3931	TRANSISTOR	1		R3042	ERJ3GEYJ271	CHIP	1/20W	270	1	
3008		2SD1819	TRANSISTOR	1	(Q,R)	R3043	ERJ3GEYOROO	CHIP	1/20W	0	1	
3009	Ι-	2SD1328	TRANSISTOR	1		R3044	ERJ3GEYJ472	СНІР	1/20W	4.7K	1	
23010		2SB1218	TRANSISTOR	1		R3045	ERJ3GEYJ472	CHIP	1/20W	4.7K	1	/
Q3020		2SC3931	TRANSISTOR	1		R3046	ERJ3GEYJ102	CHIP	1/20W	1K	1	
Q8001		2SC3931	TRANSISTOR	1		R3047	ERJ3GEYJ563	CHIP	1/20W	56K	1	
Q8002		2SB1218	TRANSISTOR	1		R3048	ERJ3GEYJ102	CHIP	1/20W	1K	1	
Q8003	L	2SC3931	TRANSISTOR	1		R3049	ERJ3GEYJ122	CHIP	1/20W	1.2K	1	
Q8004	_	2SC3931	TRANSISTOR	1		R3050	ERJ3GEYJ102	CHIP	1/20W	1K	1	
Q8005	<u> </u>	2SD1819	TRANSISTOR	1	(Q,R)	R3051	ERJ3GEYJ824	CHIP	1/20W	820K	1	
Q8010	L	2SC3931	TRANSISTOR	1		R3054	ERJ3GEYJ822	CHIP	1/20W	8.2K	1	
Q8011	Ļ	2SD1819	TRANSISTOR	1		R3057	ERJ3GEYJ222	CHIP	1/20W	2.2K	1	
Q8012		XN4601	TRANSISTOR	1		R3058	ERJ3GEYJ103	CHIP	1/20W	10K	1	
Q8013		2SD1819	TRANSISTOR	1		R3059	ERJ3GEYJ563	CHIP	1/20W	56K	1	
Q8014 Q8015	1	2SD1819 2SD1819	TRANSISTOR TRANSISTOR	1		R3060 R3063	ERJ3GEYJ473	CHIP	1/20W	47K 4.7K	1	
Q8016	-	2SD1819	TRANSISTOR	1		R3064	ERJ3GEYJ472 ERJ3GEYJ472	CHIP	1/20W 1/20W	4.7K	1	
Q8017	$\vdash$	2SD1819	TRANSISTOR	1		R3065	ERJ3GEYJ101	CHIP	1/20W	100	1	
08018		2SD1819	TRANSISTOR	1		R3066	ERJ3GEYJ393	CHIP	1/20W	39K	1	
Q8019	+-	2SD1819	TRANSISTOR	1		R3067	ERJ3GEYJ271	CHIP	1/20W	270	1	
Q8020	†	2SD1819	TRANSISTOR	1		R3068	ERJ3GEYJ331	CHIP	1/20W	330	1	
Q8022	<del> </del>	2SB1218	TRANSISTOR	1		R3070	ERJ3GEYJ684	СНІР	1/20W	680K	1	
Q8023	T	2SC3931	TRANSISTOR	1		R3071	ERJ3GEYJ103	CHIP	1/20W	10K	1	
Q8024		2SD1819	TRANSISTOR	1		R3072	ERJ3GEYJ103	CHIP	1/20W	10K	1	
						R3073	ERJ3GEYJ684	СНІР	1/20W	680K	1	
						R3074	ERJ3GEYJ152	CHIP	1/20W	1.5K	1	
						R3075	ERJ3GEYJ222	CHIP	1/20W	2.2K	1	
			COMBINATION PARTS			R3076	ERJ3GEYJ101	CHIP	1/20W	100	1	
QR3001		UN5213	TRANSISTOR-RESISTOR	1		R3079	ERJ3GEYJ473	CHIP	1/20W	47K	1	
QR3002		UN5212	TRANSISTOR-RESISTOR	1		R3081	ERJ3GEYJ102	CHIP	1/20W	1K	1	
QR3003		UN5212	TRANSISTOR-RESISTOR	1		R3082	ERJ3GEYJ272	CHIP	1/20W	2.7K	1	
QR3007		UN5213	TRANSISTOR-RESISTOR	1		R3084	ERJ3GEYJ562	CHIP	1/20W	5.6K	1	
QR3008	Ļ.,	XN1213	TRANSISTOR-RESISTOR	1		R3085	ERJ3GEYJ122	CHIP	1/20W	1.2K	1	
QR3009	ļ	UN5217	TRANSISTOR-RESISTOR	1		R3086	ERJ3GEYJ223	CHIP	1/20W	22K	1	
QR3012	-	XN1213	TRANSISTOR-RESISTOR	1		R3087	ERJ3GEYJ152	CHIP	1/20W	1.5K	1	
QR3015	<b>├</b> ─	XN1213	TRANSISTOR-RESISTOR	1		R3088	ERJ3GEYJ152	CHIP	1/20W	1.5K	1	
QR3022 QR3023	+-	UN5212	TRANSISTOR-RESISTOR	1		R3089	ERJ3GEYJ271	CHIP	1/20W	270	1	
QR3025	+—	XN1213 UN5115	TRANSISTOR-RESISTOR	1		R3090	ERJ3GEYJ562	CHIP	1/20W	5.6K	1	
QR3027	┼	UN5212	TRANSISTOR-RESISTOR TRANSISTOR-RESISTOR	1		R3091 R3093	ERJ3GEYJ103 ERJ3GEYJ182	CHIP	1/20W 1/20W	10K	1	
QR3028	+-	UN5213	TRANSISTOR-RESISTOR	1		R3096	ERJ3GEYJ391	CHIP	1/20W	390	1	
QR3029	+	2SD1819	TRANSISTOR-RESISTOR	1		R3097	ERJ3GEYJ391	CHIP	1/20W	390	1	
QR3030	+-	UN5212	TRANSISTOR-RESISTOR	1		R3099	ERDS2TJ472	C.RESISTOR	1/4W	4.7K	1	
QR8001	T	UN5213	TRANSISTOR-RESISTOR	1	-	R3103	ERJ3GEYJ223	CHIP	1/20W	22K	1	
QR8002	$\Box$	UN5213	TRANSISTOR-RESISTOR	1		R3104	ERJ3GEYJ103	CHIP	1/20W	10K	1	
QR8003		XN4215	TRANSISTOR-RESISTOR	1		R3105	ERJ3GEYJ151	CHIP	1/20W	150	1	
QR8004	Г	UN5212	TRANSISTOR-RESISTOR	1		R3106	ERJ3GEYJ471	CHIP	1/20W	470	1	
QR8010		UN5212	TRANSISTOR-RESISTOR	1		R3107	ERJ3GEYJ121	CHIP	1/20W	120	1	
QR8011		UN5212	TRANSISTOR-RESISTOR	1		R3108	ERJ3GEYJ222	CHIP	1/20W	2.2K	1	
QR8012	1_	UN5212	TRANSISTOR-RESISTOR	1		R3110	ERJ3GEYJ182	CHIP	1/20W	1.8K	1	
	<u> </u>			<u> </u>		R3112	ERJ3GEYJ182	CHIP	1/20W	1.8K	1	
	<u> </u>			<u></u>		R3114	ERJ3GEYJ122	CHIP	1/20W	1.2K	1	
	_			oxdot		R3115	ERJ3GEYJ122	CHIP	1/20W	1.2K	1	
	-		RESISTORS	_		R3116	ERJ3GEYJ122	CHIP	1/20W	1.2K	1	
R3001	-	ERJ3GEYJ392	CHIP 1/20W 3.9K	1		R3117	ERJ3GEYJ103	CHIP	1/20W	10K	1	-
R3002	<del> </del>	ERJ3GEYJ270	CHIP 1/20W 27	1		R3118	ERJ3GEYJ103	CHIP	1/20W	10K	1	
R3003	-	ERJ3GEYJ270	CHIP 1/20W 27	1		R3123	ERJ3GEYJ102	CHIP	1/20W	1K	1	
R3004	₩-	ERJ3GEYJ392	CHIP 1/20W 3.9K	1		R3124	ERJ3GEYJ333	CHIP	1/20W	33K	1	
R3005	├—	ERJ3GEYJ392	CHIP 1/20W 3.9K	1		R3125	ERJ3GEYJ823	CHIP	1/20W	82K	1	
R3006 R3007	-	ERJ3GEYJ182	CHIP 1/20W 1.8K	1		R3127	ERJ3GEYJ153	CHIP	1/20W	15K	1	
R3007		ERJ3GEYJ393	CHIP 1/20W 39K	1		R3131	ERJ3GEYJ182	CHIP	1/20W	1.8K	1	
R3009	-	ERJ3GEYJ271 ERJ3GEYJ682	CHIP 1/20W 270 CHIP 1/20W 6.8K	1		R3133 R3140	ERJ3GEYJ221 ERJ3GEYJ223	CHIP	1/20W 1/20W	220 22K	1	
R3011	-	ERJ3GEYJ682 ERJ3GEYOROO	CHIP 1/20W 6.8K	1		R3140 R8001	ERJ3GEYJ223 ERJ3GEYJ102	CHIP	1/20W	22K	1	
R3012	<del> </del>	ERJ3GEYOROO	CHIP 1/20W 0	1		R8002	ERJ3GEYJ102	CHIP	1/20W	1K	1	
R3013	+-	ERJ3GEYJ121	CHIP 1/20W 0	1		R8003	ERJ3GEYJ820	CHIP	1/20W	82	1	
R3014	-	ERJ3GEYJ270	CHIP 1/20W 27	1		R8004	ERJ3GEYJ102	CHIP	1/20W	1K	1	***
R3015	<del>                                     </del>	ERJ3GEYJ222	CHIP 1/20W 2.2K	1		R8005	ERJ3GEYJ273	CHIP	1/20W	27K	1	
R3016	t	ERJ3GEYJ331	CHIP 1/20W 330	1		R8006	ERJ3GEYJ102	CHIP	1/20W	1K	1	
R3030		ERJ3GEYJ102	CHIP 1/20W 1K	1		R8007	ERJ3GEYJ102	CHIP	1/20W	1K	1	
R3034	$\overline{}$	ERJ3GEYJ102	CHIP 1/20W 1K	1		R8008	ERJ3GEYJ102	СНІР	1/20W	1K	1	
R3036		ERJ3GEYJ562	CHIP 1/20W 5.6K	1		R8009	ERJ3GEYJ682	CHIP	1/20W	6.8K	1	
R3037		ERJ3GEYJ182	CHIP 1/20W 1.8K	1		R8010	ERJ3GEYJ333	CHIP	1/20W	33K	1	
R3040		ERJ3GEYJ102	CHIP 1/20W 1K	1		R8011	ERJ3GEYJ272	CHIP	1/20W	2.7K	1	
R3041		ERJ3GEYJ102	CHIP 1/20W 1K	1		R8012	ERJ3GEYJ821	CHIP	1/20W	820	1	

	Π				Γ				T			Τ-	T
Ref.No.		Part No.	Part Name & Desc	ription	Pcs	Remarks	Ref.No.		Part No.	Part Name & Descri	ption	Pcs	Remarks
R8013		ERJ3GEYJ472	CHIP 1/20W	4.7K	1		R8092		ERJ3GEYJ104	CHIP 1/20W	100K	1	
R8014		ERJ3GEYJ273	CHIP 1/20W	27K	1		R8093		ERJ3GEYJ123	CHIP 1/20W	12K	1	
R8015		ERJ3GEYJ103	CHIP 1/20W	10K	1		R8094		ERJ3GEYJ104	CHIP 1/20W	100K	1	
R8016		ERJ3GEYJ470	CHIP 1/20W	47	1		R8095		ERJ3GEYJ123	CHIP 1/20W	12K	1	
R8017		ERJ3GEYJ123	CHIP 1/20W	12K	1		R8096		ERJ3GEYJ562	CHIP 1/20W	5.6K	1	
R8018		ERJ3GEYJ102	CHIP 1/20W	1K	1		R8097		ERJ3GEYJ105	CHIP 1/20W	1M	1	
R8019		ERJ3GEYJ182	CHIP 1/20W	1.8K	1		R8098		ERJ3GEYJ103	CHIP 1/20W	10K	1	
R8020		ERJ3GEYJ102	CHIP 1/20W	1K	1		R8099		ERJ3GEYJ103	CHIP 1/20W	10K	1	
R8021	L	ERJ3GEYOROO	CHIP 1/20W	0	1		R8100		ERJ3GEYJ103	CHIP 1/20W	10K	1	
R8022	_	ERJ3GEYJ272	CHIP 1/20W	2.7K	1		R8101		ERJ3GEYJ103	CHIP 1/20W	10K	1	
R8023		ERJ3GEYJ271	CHIP 1/20W	270	1		R8102		ERJ3GEYJ393	CHIP 1/20W	39K	1	
R8024	L.	ERJ3GEYOROO	CHIP 1/20W	0	1		R8103		ERJ3GEYJ473	CHIP 1/20W	47K	1	
R8025	-	ERJ3GEYJ122	CHIP 1/20W		1		R8104		ERJ3GEYJ222	CHIP 1/20W	2.2K	1	
R8026		ERJ3GEYJ102	CHIP 1/20W		1		R8105		ERJ3GEYJ105	CHIP 1/20W	1M	1	
R8027		ERJ3GEYJ183	CHIP 1/20W		1		R8106		ERJ3GEYJ562	CHIP 1/20W	5.6K	1	<del>                                     </del>
R8028	_	ERJ3GEYJ123	CHIP 1/20W		1		R8107		ERJ3GEYJ681	CHIP 1/20W	680	1	
R8029	_	ERJ3GEYJ331	CHIP 1/20W		1		R8108	_	ERJ3GEYJ122	CHIP 1/20W	1.2K	1	
R8030		ERJ3GEYJ390	CHIP 1/20W		1		R8109		ERJ3GEYJ101	CHIP 1/20W	100	1	
R8031	-	ERJ3GEYJ102	CHIP 1/20W		1							<u> </u>	
R8032	+	ERJ3GEYJ223	CHIP 1/20W		1			<u> </u>				<u> </u>	
R8033		ERJ3GEYJ102	CHIP 1/20W		1					THERMI STER		-	
R8034	$\vdash$	ERJ3GEYJ122	CHIP 1/20W		1		TH3001		ERTD2FIK154S	THERMISTER		1	
R8035	-	ERJ3GEYJ822	CHIP 1/20W		1							<u> </u>	
R8036	-	ERJ3GEYJ562	CHIP 1/20W		1							<u> </u>	
R8038	├	ERJ3GEYJ105	CHIP 1/20W		1					VARIABLE RESISTORS			
R8039 R8040	$\vdash$	ERJ8GCYJ682	CHIP 1/8W		1		VR3001		EVM7NSX00B23	V.RESISTOR	2K	1	
R8040	-	ERJ3GEYJ822	CHIP 1/20W		1		VR3003		EVM7NSW00B54	V.RESISTOR	50K	1	
R8045		ERJ3GEYOROO ERJ3GEYJ392	CHIP 1/20W		1		VR3004		EVM7NSW00B54	V.RESISTOR	50K	1	
R8046			CHIP 1/20W		1		VR3006		EVM7NSW00B14	V.RESISTOR	10K	1	
R8047		ERJ3GEYJ391 ERJ3GEYJ122	CHIP 1/20W CHIP 1/20W		1		VR3007		EVM7NSW00B14	V.RESISTOR	10K	1	
R8048	-	ERJ3GEYJ122 ERJ3GEYJ681			1		VR3009		EVM7NSW00B54	V.RESISTOR	50K	1	
R8049	-	ERJ3GEYJ103	CHIP 1/20W CHIP 1/20W		1		VR3010		<del></del>	V.RESISTOR	1K	1	
R8050	-	ERJ3GEYJ223	CHIP 1/20W		1		VR3012 VR3013		EVM7NSX00B54	V.RESISTOR	50K	1	
R8051		ERJ3GEYJ681	CHIP 1/20W		1		VR8001		EVM7NSWOOB23 EVM7NSXOOB13	V.RESISTOR	2K	1	
R8052	-	ERJ3GEYJ122	CHIP 1/20W		1	-	VR8002		EVM7NSX00B13	V.RESISTOR	1K	1	
R8053		ERJ3GEYJ561	CHIP 1/20W		1		VR8005		EVM7NSWOOB14	V.RESISTOR V.RESISTOR	50K	1	
R8054	_	ERJ3GEYJ221	CHIP 1/20W		1		VR8006		EVM7NSX00B54	V.RESISTOR	50K	1	
R8055	-	ERJ3GEYJ221	CHIP 1/20W		1		VR8007		· · · · · · · · · · · · · · · · · · ·	V.RESISTOR	2K	1	
R8056	_	ERJ3GEYJ102	CHIP 1/20W	1K	1	warm,	VACOUT		EVIII NONOODES	v.RESISTOR	21		
R8057		ERJ3GEYJ102	CHIP 1/20W	1K	1					VA.5			
R8058		ERJ3GEYJ681	CHIP 1/20W	680	1								
R8059		ERJ3GEYJ223	CHIP 1/20W	22K	1		-					-	
R8060		ERJ3GEYJ123	CHIP 1/20W	1.2K	1								
R8061		ERJ3GEYJ122	CHIP 1/20W	1.2K	1					CHRISTAL OSCILLATOR			
R8062		ERJ3GEYJ102	CHIP 1/20W	1K	1		X8001		VSX0188	CHRISTAL OSCILLATOR		1	
R8063		ERJ3GEYJ103	CHIP 1/20W	10K	1								
R8064		ERJ3GEYJ393	CHIP 1/20W	39K	1					771700			
R8065		ERJ3GEYJ221	CHIP 1/20W	220	1								****
R8066		ERJ3GEYJ154	CHIP 1/20W	150K	1								
R8067	$\Box$	ERJ3GEYJ103	CHIP 1/20W	10K	1								
R8068		ERJ3GEYJ223	CHIP 1/20W	22K	1							T	
R8069	$\Box$	ERJ3GEYJ123	CHIP 1/20W	12K	1								
R8070		ERJ3GEYJ104	CHIP 1/20W	100K	1								
R8071		ERJ3GEYJ391	CHIP 1/20W	390	1							$\Box$	
R8072	_	ERJ3GEYJ332	CHIP 1/20W	3.3K	1			]					
R8073		ERJ3GEYJ821	CHIP 1/20W	820	1								
R8074		ERJ3GEYJ102	CHIP 1/20W	1K	1			]				$\Box$	
R8075		ERJ3GEYJ473	CHIP 1/20W	47K	1								
R8076	$\rightarrow$	ERJ3GEYJ473	CHIP 1/20W	47K	1		ļ			· · · · · · · · · · · · · · · · · · ·			
R8077		ERJ3GEYJ821	CHIP 1/20W	820	1		ļ	_				$\Box$	
R8078		ERJ3GEYJ272	CHIP 1/20W	2.7K	1			_					
R8079		ERJ3GEYJ222	CHIP 1/20W	2.2K	1			_					
R8080	~-+	ERJ3GEYJ473	CHIP 1/20W	47K	1			_				$\dashv$	
R8081	+	ERJ3GEYJ222	CHIP 1/20W	2.2K	1			_				_	
R8082	$\neg$	ERJ3GEYJ561	CHIP 1/20W	560	1			_				_	
R8083		ERJ3GEYJ561	CHIP 1/20W	560	1					-1.4.		$\dashv$	
		ERJ3GEYJ223	CHIP 1/20W	22K	1			-				_	
R8085		RJ3GEYJ393	CHIP 1/20W	39K	1			_		.,.		_	
R8086	$\overline{}$	RJ3GEYJ471	CHIP 1/20W	470	1							_	
R8087	_	ERJ3GEYJ103	CHIP 1/20W	10K	1							_	
R8088	_	ERJ3GEYJ222	CHIP 1/20W	2.2K	1							$\dashv$	
R8089	$\rightarrow$	ERJ3GEYJ562	CHIP 1/20W	5.6K	1								
R8090	_	ERJ3GEYJ104	CHIP 1/20W	100K	1		L	_					
R8091	_	ERJ3GEYJ203	CHIP 1/20W	20K	1		ļ					_	
	- 1	_	L										

RESI  R2601 ERJ3GEYJ103 CHIP R2602 ERJ3GEYJ103 CHIP R2604 ERDSZTJIR8 C.RE R2606 ERJ3GEYJ103 CHIP R2606 ERJ3GEYJ103 CHIP R2607 ERJ3GEYJ178 C.RE R2606 ERJ3GEYJ178 C.RE R2607 ERJ3GEYJ373 CHIP R2608 ERJ3GEYJ373 CHIP R2609 ERJ3GEYJ330 CHIP R2609 ERJ3GEYJ330 CHIP R2610 ERJ3GEYJ330 CHIP R2611 ERDSZTJR6 C.RE R2610 ERJ3GEYJ330 CHIP R2611 ERDSZTJR6 C.RE R2612 ERJ4GMYJ22 CHIP R2613 ERJ3GEYJ330 CHIP R2614 ERJ3GEYJ330 CHIP R2615 ERJ3GEYJ103 CHIP R2616 ERJ3GEYJ103 CHIP R2616 ERJ3GEYJ103 CHIP R2617 ERJ3GEYJ103 CHIP R2618 ERJ3GEYJ103 CHIP R2619 ERJ3GEYJ103 CHIP R2610 ECWIEIO3ZEM CHIP 25V 0.01U 1 R2615 ERJ3GEYJ101 C.RE R2616 ERJ3GEYJ101 C.RE R2606 ECWIEIO3ZEM CHIP 25V 0.01U 1 R2617 ERRSZTJR6 C.RE R2618 ERJ3GEYJ101 C.RE R2619 ERDSZTJR2 C.RE R2610 ECWIEIO3ZEM CHIP 25V 0.01U 1 R2611 ERSZTJR2 C.RE R2612 ERJ3GEYJ311 CHIP R2613 ERJ3GEYJ101 C.RE R2614 ERJ3GEYJ101 C.RE R2615 ERJ3GEYJ101 C.RE R2606 ECWIEIO3ZEM CHIP 25V 0.01U 1 R2617 ERRSZTJD1 C.RE R2618 ERJ3GEYJ31 CHIP R2619 ERDSZTJZR2 C.RE R2609 ECWIEIO3ZEM CHIP 25V 0.01U 1 R2610 ECEALEKKZR2 E.CAPACITOR 25V 2.ZU 1 R2610 ECEALEKKZR2 E.CAPACITOR 25V 2.ZU 1 R2610 ECEALEKKZR2 E.CAPACITOR 25V 2.ZU 1 R2610 ECEALEKKZR2 E.CAPACITOR 25V 0.01U 1 R2611 ERJ3GEYJ31 CHIP R2611 ERJ3GEYJ31 CHIP R2612 ERJ3GEYJ31 CHIP R2613 ERJ3GEYJ31 CHIP R2614 ERJ3GEYJ31 CHIP R2615 ERJ3GEYJ31 CHIP R2616 ERJ3GEYJ31 CHIP R2617 ERBSZTJZR2 C.RES R2606 ECWIEIO3ZEM CHIP 25V 0.01U 1 R2618 ERJ3GEYJ31 CHIP R2619 ERDSZTJZR2 C.RES	ISTORS   P	Pcs	Remarks
RESI: R2601 ERJ3GEVJ103 CHIP R2602 ERJ3GEVJ103 CHIP R2603 ERJ3GEVJ103 CHIP R2604 ERDSZTJ1R8 C.RE R2605 ERRSZTJ1R8 C.RE R2606 ERJ3GEVJ103 CHIP R2606 ERJ3GEVJ103 CHIP R2606 ERJ3GEVJ103 CHIP R2607 ERJ3GEVJ103 CHIP R2608 ERJ3GEVJ103 CHIP R2608 ERJ3GEVJ103 CHIP R2608 ERJ3GEVJ103 CHIP R2609 ERJ3GEVJ330 CHIP R2608 ERJ3GEVJ330 CHIP R2609 ERJ3GEVJ330 CHIP R2610 ERJ3GEVJ330 CHIP R2611 ERDSZTJR6F C.RE R2611 ERJ3GEVJ330 CHIP R2612 ERJ6GMYJ221 CHIP R2613 ERJ3GEVJ103 CHIP R2608 ERJ3GEVJ330 CHIP R2610 ERJ3GEVJ330 CHIP R2611 ERDSZTJR6F C.RE R2612 ERJ6GMYJ21 CHIP R2613 ERJ3GEVJ103 CHIP R2614 ERJ3GEVJ103 CHIP R2608 ERJ3GEVJ101 CHIP R2609 ERJ3GEVJ101 CHIP R2610 ERJ3GEVJ101 CHIP R2611 ERDSZTJR6F C.RE R2612 ERJ6GMYJ21 CHIP R2614 ERJ3GEVJ101 CHIP R2608 ERJ3GEVJ101 CHIP R2609 ERJAGEVJ101 CHIP R2609 ERJAGEVJ101 CHIP R2610 ERJ3GEVJ101 CHIP R2610 ERJ3GEVJ101 CHIP R2610 ERJ3GEVJ101 CRE R2610 ERJ3GEVJ101 CRE R2610 ERJ3GEVJ101 CRE R2610 ERJ3GEVJ101 CRE R2610 ERJ3GEVJ31 CHIP R2610 ERJ3GEVJ31 CHIP R2610 ERJ3GEVJ31 CHIP R2611 ERJ3GEVJ31 CHIP R2612 ERJ6GMYJ21 CHIP R2613 ERJ3GEVJ31 CHIP R2614 ERJ3GEVJ31 CHIP R2615 ERJ3GEVJ31 CHIP R2616 ERJ3GEVJ31 CHIP R2617 ERJGSTJ31 CHIP R2619 ERJGSTJ31 CHIP R2610 ERJAGEVJ31 CHIP R2611 ERJGSTJ31 CHIP R2612 ERJGGMYJ31 CHIP R2613 ERJ3GEVJ31 CHIP R2614 ERJ3GEVJ31 CHIP R2615 ERJ3GEVJ31 CHIP R2616 ERJ3GEVJ31 CHIP R2617 ERJGSTJ31 CHIP R2618 ERJ3GEVJ31 CHIP R2619 ERJGSTJ31 CHIP R2619 ERJGSTJ2R2 C.RE R2619 ERJGSTJ2R2 C.RE R2610 ERJGGMYJ31 CHIP R2611 ERJGEVJ31 CHIP R2612 ERJGGMYJ31 CHIP R2613 ERJ3GEVJ31 CHIP R2614 ERJ3GEVJ31 CHIP R2615 ERJ3GEVJ31 CHIP R2616 ERJ3GEVJ31 CHIP R2617 ERJGGMYJ31 CHIP R2618 ERJ3GEVJ31 CHIP R2619 ERJGSTJ2R2 C.RE R2619 ERJGGMYJ31 CHIP R2610 ERJGGMYJ31 CHIP R2611 ERJGEVJ31 CHIP R2611 ERJGEVJ31 CHIP R2612 ERJGGMYJ31 CHIP R2613 ERJ3GEVJ31 CHIP R2614 ERJ3GEVJ31 CHIP R2615 ERJ3GEVJ31 CHIP R2616 ERJ3GEVJ31 CHIP R2617 ERJ3GEVJ31 CHIP R2618 ERJ3GEVJ31 CHIP R2619 ERJ3GEVJ31 CHIP R2619 ERJ3GEVJ31 CHIP R2619 ERJ3GEVJ31 CHIP R2610 ERJ3GEVJ31 CHIP R2610 ERJ3GEVJ31 CHIP R2610 ERJ3GEVJ31 CHIP R2610 ERJ3GEVJ31	P	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	REMATIVS
R2601   R23GEYJ103 CHIP   R2602   ERJ3GEYJ103 CHIP   R2603   R23GEYJ103 CHIP   R2604   R2603   R23GEYJ103 CHIP   R2604   R2604   R2605   R23GEYJ103 CHIP   R2606   R23GEYJ103 CHIP   R2606   R23GEYJ108   C.RE   R2606   R23GEYJ108   C.RE   R2606   R23GEYJ108   C.RE   R2606   R23GEYJ108   C.RE   R2606   R23GEYJ330 CHIP   R2607   R2509   R23GEYJ330 CHIP   R2609   R23GEYJ330 CHIP   R2609   R23GEYJ330 CHIP   R2610   R2611   R262ZJ1066   R23GEYJ330 CHIP   R2611   R262ZJ1066   R23GEYJ330 CHIP   R2611   R262ZJ1066   R2611   R262ZJ1066   R2611   R262ZJ1066   R2611   R262ZJ1066   R2611   R2612ZJ103   R2612   R2612ZJ101   R2613   R23GEYJ103   R2612   R2613GEYJ103   R2612   R2613GEYJ103   R2613   R23GEYJ103   R2614   R2614   R23GEYJ103   R2614   R2614   R23GEYJ103   R2614   R23GEYJ103   R2614   R2614   R2614   R23GEYJ103   R2614   R23GEYJ103   R2614   R23GEYJ103   R2614   R2614   R23GEYJ103   R2614   R23GEYJ103   R2614   R23GEYJ103   R2614   R23GEYJ103   R2614   R23GEYJ103   R2614   R2614   R23GEYJ1	P 1/20W 10K P 1/20W 10K P 1/20W 10K ESISTOR 1/4W 1.8 ESISTOR 1/4W 1.8 ESISTOR 1/4W 3.8 P 1/20W 33K P 1/20W 33K P 1/20W 33K P 1/20W 33K ESISTOR 1/4W 0.68 P 1/16W 220 P 1/20W 10K P 1/20W 10K P 1/20W 150 P 1/20W 150 P 1/20W 270 ESISTOR 1/4W 100 P 1/20W 330	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R2601   R23GEYJ103 CHIP   R2602   ERJ3GEYJ103 CHIP   R2603   R23GEYJ103 CHIP   R2604   R2603   R23GEYJ103 CHIP   R2604   R2604   R2605   R23GEYJ103 CHIP   R2606   R23GEYJ103 CHIP   R2606   R23GEYJ108   C.RE   R2606   R23GEYJ108   C.RE   R2606   R23GEYJ108   C.RE   R2606   R23GEYJ108   C.RE   R2606   R23GEYJ330 CHIP   R2607   R2509   R23GEYJ330 CHIP   R2609   R23GEYJ330 CHIP   R2609   R23GEYJ330 CHIP   R2610   R2611   R262ZJ1066   R23GEYJ330 CHIP   R2611   R262ZJ1066   R23GEYJ330 CHIP   R2611   R262ZJ1066   R2611   R262ZJ1066   R2611   R262ZJ1066   R2611   R262ZJ1066   R2611   R2612ZJ103   R2612   R2612ZJ101   R2613   R23GEYJ103   R2612   R2613GEYJ103   R2612   R2613GEYJ103   R2613   R23GEYJ103   R2614   R2614   R23GEYJ103   R2614   R2614   R23GEYJ103   R2614   R23GEYJ103   R2614   R2614   R2614   R23GEYJ103   R2614   R23GEYJ103   R2614   R23GEYJ103   R2614   R2614   R23GEYJ103   R2614   R23GEYJ103   R2614   R23GEYJ103   R2614   R23GEYJ103   R2614   R23GEYJ103   R2614   R2614   R23GEYJ1	P 1/20W 10K P 1/20W 10K P 1/20W 10K ESISTOR 1/4W 1.8 ESISTOR 1/4W 1.8 ESISTOR 1/4W 3.8 P 1/20W 33K P 1/20W 33K P 1/20W 33K P 1/20W 33K ESISTOR 1/4W 0.68 P 1/16W 220 P 1/20W 10K P 1/20W 10K P 1/20W 150 P 1/20W 150 P 1/20W 270 ESISTOR 1/4W 100 P 1/20W 330	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
■ VEP02297A DRIVE C.B.A.   R2603   ERJ3GEYJ103 CHIP   R2604   REDSZTJIR8   C.RES   R2605   REDSZTJIR8   C.RES   R2606   R2505ZTJIR8   C.RES   R2606   R2505ZTJIR8   C.RES   R2606   R2505ZTJIR8   C.RES   R2606   R2505ZTJIR8   C.RES   R2607   R2607   R2507   R2507   R2507   R2508   R2509   R2507   R2509   R2509   R2509   R2507ZTJIR3   C.RES   R2611   R2612   R2612   R2612   R2608ZTJIR3   C.RES   R2612   R2612   R2613   R2512   R2613   R2512   R2613   R2512   R2613   R2512   R2613   R2512   R2614   R2512   R2614   R2512   R2614   R2512   R2615   R2615   R2512   R2615   R	P 1/20w 10K ESISTOR 1/4W 1.8 ESISTOR 1/4W 1.8 ESISTOR 1/4W 1.8 P 1/20W 56K P 1/20W 33K P 1/20W 33K P 1/20W 33K ESISTOR 1/4W 0.68 P 1/16W 220 P 1/20W 10K P 1/20W 10K P 1/20W 150 P 1/20W 270 ESISTOR 1/4W 0.68	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R2604   ERDSZTJIR8   C.RE	ESISTOR 1/4W 1.8 ESISTOR 1/4W 1.8 P 1/20W 4.7K P 1/20W 56K P 1/20W 33K P 1/20W 33K P 1/20W 33K ESISTOR 1/4W 0.68 P 1/16W 220 P 1/20W 10K P 1/20W 10K P 1/20W 150 P 1/20W 270 ESISTOR 1/4W 100 P 1/20W 330	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R2605   ERDSZTJIR8   C.RE	ESISTOR 1/4W 1.8 P 1/20W 4.7K P 1/20W 56K P 1/20W 33K P 1/20W 33K P 1/20W 33K P 1/20W 33K P 1/20W 10.68 P 1/20W 10.68 P 1/20W 10K P 1/20W 10K P 1/20W 10K P 1/20W 150 P 1/20W 270 ESISTOR 1/4W 100 P 1/20W 330	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R2606   ERJ3GEYJ472   CHIP   R2607   ERJ3GEYJ563   CHIP   R2608   ERJ3GEYJ563   CHIP   R2608   ERJ3GEYJ330   CHIP   R2609   ERJ3GEYJ330   CHIP   R2610   R2611   ERDSZTJR66   C. RES   R2611   ERDSZTJR66   C. RES   R2611   ERDSZTJR66   C. RES   R2612   ERJ6GMYJ221   CHIP   R2613   ERJ3GEYJ130   CHIP   C2602   ECUXLE103ZFM   CHIP   Z5V   O.01U   1   R2615   ERJ3GEYJ103   CHIP   C2603   ECUXLE103ZFM   CHIP   Z5V   O.01U   1   R2616   ERJ3GEYJ151   CHIP   C2604   ECUXLE103ZFM   CHIP   Z5V   O.01U   1   R2617   ERBSZTJ101   C. RES   C2605   ECEA1EKKZR2   E. CAPACITOR   Z5V   Z. ZU   1   R2618   ERJ3GEYJ331   CHIP   C2606   ECEA1EKKZR2   E. CAPACITOR   Z5V   Z. ZU   1   R2619   ERDSZTJZR2   C. RES   C2609   ECUXLE103ZFM   CHIP   Z5V   O.1U   1   C2610   ECEA1EKKZR2   E. CAPACITOR   Z5V   Z. ZU   1   R2619   ERDSZTJZR2   C. RES   C2609   ECUXLE103ZFM   CHIP   Z5V   O.1U   1   C2610   ECEA1EKKZR2   E. CAPACITOR   Z5V   Z. ZU   1   C2606   ECEA1EKKZR2   E. CAPACITOR   Z5V   Z. ZU   1   C2606   ECEA1EKKZR2   E. CAPACITOR   Z5V   Z. ZU   1   C2610   ECUXLE103ZFM   CHIP   Z5V   O.1U   1   C2611   ECUXLE104ZFM   CHIP   Z5V   O.1U   1   C2611   ECUXLE104ZFM   CHIP   Z5V   O.1U   1   C2612   ECEA1CKK4R7   E. CAPACITOR   16V   4.7U   1   C2613   ECUXLE104ZFM   CHIP   Z5V   O.1U   1   C2613   ECUXLE104ZFM   CHIP   Z5V   O.1U   1   C2614   ECUXLE104ZFM   CHIP   Z5V   O.1U   1   C2615   ECUXLE104ZFM   CHIP   Z5V   O.1U   1   C2616   ECUXLE104ZFM   CHIP   Z5V   O.1U   1   C261	P 1/20w 4.7K P 1/20w 56K P 1/20w 33K P 1/20w 33K P 1/20w 33K P 1/20w 33K P 1/20w 10.68 P 1/16w 220 P 1/20w 10K P 1/20w 10K P 1/20w 150 P 1/20w 270 ESISTOR 1/4w 100 P 1/20w 330	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R2607   ERJ3GEYJ563   CHIP   R2608   ERJ3GEYJ330   CHIP   R2608   ERJ3GEYJ330   CHIP   R2609   ERJ3GEYJ330   CHIP   R2610   ERJ3GEYJ330   CHIP   R2611   ERDSZTJR67   C.RES   R2611   ERDSZTJR67   C.RES   R2612   ERJ6GMYJ221   CHIP   R2611   ERJ3GEYJ103   CHIP   R2611   ERJ3GEYJ103   CHIP   R2612   ERJ6GMYJ221   CHIP   C2602   ECUXLE103ZFM   CHIP   Z5V   O.01U   1   R2615   ERJ3GEYJ103   CHIP   C2603   ECUXLE103ZFM   CHIP   Z5V   O.01U   1   R2616   ERJ3GEYJ271   CHIP   C2604   ECUXLE103ZFM   CHIP   Z5V   O.01U   1   R2616   ERJ3GEYJ271   CHIP   C2606   ECEXALEKCZR2   E.CAPACITOR   Z5V   Z.ZU   1   R2619   ERDSZTJ101   C.RES   C2606   ECEXALEKCZR2   E.CAPACITOR   Z5V   Z.ZU   1   R2619   ERDSZTJZR2   C.RES   C2609   ECUXLE103ZFM   CHIP   Z5V   O.01U   1   C2608   ECUXLE103ZFM   CHIP   Z5V   O.01U   1   C2609   ECUXLE103ZFM   CHIP   Z5V   O.01U   1   C2609   ECUXLE103ZFM   CHIP   Z5V   O.01U   1   C2609   ECUXLE103ZFM   CHIP   Z5V   O.1U   1   C2609   ECUXLE103ZFM   CHIP   Z5V   O.1U   1   C2610   ECEALCKCAR7   E.CAPACITOR   L6V   4.7U   1   C2611   ECUXLE104ZFM   CHIP   Z5V   O.1U   1   C2612   ECEALCKCAR7   E.CAPACITOR   L6V   4.7U   1   C2613   ECUXLE104ZFM   CHIP   Z5V   O.1U   1   C2614   ECUXLE104ZFM   CHIP   Z5V   O.1U   1   C2615   ECUXLE104ZFM   CHIP   Z5V   O.1U   1   C2616   ECUXLE104ZFM   CHIP   Z5V   O.1U	P 1/20w 56K P 1/20w 33K P 1/20w 33K P 1/20w 33K ESISTOR 1/4w 0.68 P 1/16w 220 P 1/20w 10K P 1/20w 10K P 1/20w 150 P 1/20w 270 ESISTOR 1/4w 100 P 1/20w 330	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R2608   ERJ3GEYJ330   CHIP   R2609   ERJ3GEYJ330   CHIP   R2610   ERJ3GEYJ330   CHIP   R2610   ERJ3GEYJ330   CHIP   R2611   ERDSZTJR66   C.RES   R2611   ERDSZTJR66   C.RES   R2612   ERJ3GEYJ103   CHIP   R2611   ERDSZTJR67   CHIP   R2613   ERJ3GEYJ103   CHIP   R2614   ERJ3GEYJ103   CHIP   R2610   ECHALENGAR   CHIP   R2615   ERJ3GEYJ151   CHIP	P 1/20W 33K P 1/20W 33K P 1/20W 33K ESISTOR 1/4W 0.68 P 1/16W 220 P 1/20W 10K P 1/20W 150 P 1/20W 150 P 1/20W 270 ESISTOR 1/4W 100 P 1/20W 330	1 1 1 1 1 1 1 1 1 1 1	
R2609   ERJ3GEYJ330   CHIP   R2610   ERJ3GEYJ330   CHIP   R2611   ERDSZTJR68   C. RES   R2612   ERJ6GMYJ221   CHIP   R2611   ERDSZTJR68   C. RES   R2612   ERJ6GMYJ221   CHIP   R2611   ERDSZTJR68   C. RES   R2612   ERJ6GMYJ221   CHIP   R2611   ERJ3GEYJ103   CHIP   R2611   ERJ3GEYJ103   CHIP   R2612   ERJ3GEYJ103   CHIP   R2614   ERJ3GEYJ103   CHIP   CZ602   ECUX1E103ZFM   CHIP   Z5V   O.01U   1   R2615   ERJ3GEYJ151   CHIP   CZ603   ECUX1E103ZFM   CHIP   Z5V   O.01U   1   R2616   ERJ3GEYJ271   CHIP   CZ604   ECUX1E103ZFM   CHIP   Z5V   O.01U   1   R2617   ERDSZTJ101   C. RES   CZ605   ECEA1EKKZR2   E. CAPACITOR   Z5V   Z. ZU   1   R2618   ERJ3GEYJ331   CHIP   CZ606   ECEA1EKKZR2   E. CAPACITOR   Z5V   Z. ZU   1   R2619   ERDSZTJZR2   C. RES   CZ607   ECEA1EKKZR2   E. CAPACITOR   Z5V   Z. ZU   1   CZ608   ECUX1E103ZFM   CHIP   Z5V   O.01U   1   CZ609   ECUX1E104ZFM   CHIP   Z5V   O.1U   1   CZ611   ECUX1E104ZFM   CHIP   Z5V   O.1U   1   CZ612   ECEA1CKK477   E. CAPACITOR   16V   4.7U   1   CZ613   ECUX1E104ZFM   CHIP   Z5V   O.1U   1   CZ614   ECUX1E104ZFM   CHIP   Z5V   O.1U   1   CZ615   ECUX1E104ZFM   CHIP   Z5V   O.1U   1   CZ616   ECUX1E104ZFM   CHIP   Z5V   O.1U   1   CZ617   ECUX1E104ZFM   CHIP   Z5V   O.1U   1   CZ618   ECUX1E104ZFM   CHIP   Z5V   O.1U   1   CZ619	P 1/20w 33K P 1/20w 33K ESISTOR 1/4w 0.68 P 1/16w 220 P 1/20w 10K P 1/20w 10K P 1/20w 150 P 1/20w 270 ESISTOR 1/4w 100 P 1/20w 330	1 1 1 1 1 1 1 1 1 1	
R2610   ERJ3GEYJ330   CHIP   R2611   ERDSZTJR68   C. RES   R2612   ERJ6GMYJ221   CHIP   R2611   ERDSZTJR68   C. RES   R2612   ERJ6GMYJ221   CHIP   R2611   ERDSZTJR68   C. RES   R2612   ERJ6GMYJ221   CHIP   R2611   ERJ3GEYJ103   CHIP   R2611   ERJ3GEYJ103   CHIP   R2612   ERJ3GEYJ103   CHIP   R2614   ERJ3GEYJ103   CHIP   R2615   ERJ3GEYJ103   CHIP   R2615   ERJ3GEYJ151   CHIP   R2616   ERJ3GEYJ151   CHIP   R2616   ERJ3GEYJ151   CHIP   R2616   ERJ3GEYJ271   CHIP   R2616   ERJ3GEYJ271   CHIP   R2616   ERJ3GEYJ331   CHIP   R2616   ERJ3GEYJ31   ERJ3GEYJ313   CHIP   R2616   ERJ3GEYJ3131   CHIP   R2616   ERJ3GEYJ3131   CHIP   R2616   ERJ3GEYJ3131   CHIP   R2616   ERJ3GEYJ3131   CHIP   ERJ3GEYJ3131   CHIP   ERJ3GEYJ3131   CHIP   R2616   ERJ3GEYJ3131   CHIP   ERJ3GEYJ3131   CHIP   ERJ3GEYJ3131   CHIP   R2616   ERJ3GEY3	P 1/20w 33K ESISTOR 1/4W 0.68 P 1/16W 220 P 1/20W 10K P 1/20W 10K P 1/20W 270 ESISTOR 1/4W 100 P 1/20W 330	1 1 1 1 1 1 1 1 1	
R2611   ERDSZTJR6F   C.RES	ESISTOR 1/4W 0.68 P 1/16W 220 P 1/20W 10K P 1/20W 10K P 1/20W 150 P 1/20W 270 ESISTOR 1/4W 100 P 1/20W 330	1 1 1 1 1 1 1 1	
CAPACITORS   R2613	P 1/20w 10K P 1/20w 10K P 1/20w 150 P 1/20w 270 ESISTOR 1/4w 100 P 1/20w 330	1 1 1 1 1 1	
C2601     ECEALCKS470   E. CAPACITOR   16V   47U   1	P 1/20w 10K P 1/20w 150 P 1/20w 270 ESISTOR 1/4w 100 P 1/20w 330	1 1 1 1	
C2602	P 1/20W 150 P 1/20W 270 ESISTOR 1/4W 100 P 1/20W 330	1 1 1 1	
C2603     ECUX1E1032FM   CHIP   25V   0.01U   1     R2616   ERJ3GEYJ271   CHIP   C2604   ECUX1E1032FM   CHIP   25V   0.01U   1   R2617   ERDSZTJ101   C.RES   C2605   ECEA1EKKZR2   E. CAPACITOR   25V   2.2U   1   R2618   ERJ3GEYJ331   CHIP   C2606   ECEA1EKKZR2   E. CAPACITOR   25V   2.2U   1   R2619   ERDSZTJZR2   C.RES   C2607   ECEA1EKKZR2   E. CAPACITOR   25V   2.2U   1   C2608   ECUX1E1032FM   CHIP   25V   0.0U   1   C2609   ECUX1E1042FM   CHIP   25V   0.1U   1   C2610   ECEA1CKC4R7   E. CAPACITOR   16V   4.7U   1   C2611   ECUX1E1042FM   CHIP   25V   0.1U   1   C2612   ECEA1CKS470   E. CAPACITOR   16V   4.7U   1   C2613   ECUX1E1042FM   CHIP   25V   0.1U   1   C2614   ECUX1E1042FM   CHIP   25V   0.1U   1   C2615   ECUX1E104ZFM   CHIP   25V   0.1U   1   C2616   ECUX1E103ZFM   CHIP   25V   0.1U   1   C2616   ECUX1E103ZFM   CHIP   25V   0.1U   1   C2616   ECUX1E103ZFM   CHIP   25V   0.0U   1   ECUX1E103ZFM   CHIP   25V   0.0U	P 1/20W 270 ESISTOR 1/4W 100 P 1/20W 330	1 1 1	
C2604     ECUX1E103ZFM   CHIP     25V   0.01U   1     R2617     ERDSZTJ101   C.RES   C2605   ECEA1EKKZR2   E.CAPACITOR   25V   2.2U   1   R2618   ERJ3GEYJ331   CHIP   C2606   ECEA1EKKZR2   E.CAPACITOR   25V   2.2U   1   R2619   ERDSZTJZR2   C.RES   C2607   ECEA1EKKZR2   E.CAPACITOR   25V   2.2U   1     C2608   ECUX1E103ZFM   CHIP   25V   0.01U   1     C2609   ECUX1E104ZFN   CHIP   25V   0.1U   1   C2610   ECEA1CKK4R7   E.CAPACITOR   16V   4.7U   1   C2611   ECUX1E104ZFN   CHIP   25V   0.1U   1   C2612   ECEA1CK5470   E.CAPACITOR   16V   4.7U   1   C2613   ECUX1E104ZFM   CHIP   25V   0.1U   1   C2614   ECUX1E104ZFM   CHIP   25V   0.1U   1   C2615   ECUX1E104ZFM   CHIP   25V   0.1U   1   C2616   ECUX1E103ZFM   CHIP   25V   0.1U   1   C2616   ECUX1E103ZFM   CHIP   25V   0.0U   1   C2617   CAPACITOR   CHIP   CAPACITOR   CHIP   CAPACITOR   CAPACIT	ESISTOR 1/4W 100 P 1/20W 330	1	
C2605   ECEA1EKICR2   E. CAPACITOR   25V   2.2U   1   R2618   ERJ3GEYJ331   CHIP   C2606   ECEA1EKICR2   E. CAPACITOR   25V   2.2U   1   R2619   ERDSZTJZR2   C. RES   C2607   ECEA1EKICR2   E. CAPACITOR   25V   2.2U   1   C2608   ECUXLE103ZFM   CHIP   25V   0.0U   1   C2609   ECUXLE104ZFN   CHIP   25V   0.1U   1   C2610   ECEA1CKICKIT   CAPACITOR   16V   4.7U   1   C2611   ECUXLE104ZFN   CHIP   25V   0.1U   1   C2612   ECEA1CKICKIT   CAPACITOR   16V   4.7U   1   C2613   ECUXLE104ZFM   CHIP   25V   0.1U   1   C2614   ECUXLE104ZFM   CHIP   25V   0.1U   1   C2615   ECUXLE104ZFM   CHIP   25V   0.1U   1   C2616   ECUXLE104ZFM   CHIP   25V   0.1U   1   C2615   ECUXLE104ZFM   CHIP   25V   0.1U   1   C2615   ECUXLE103ZFM   CHIP   25V   0.0U   1   C2615   C2015   C2615   C2015   C	P 1/20W 330	1	
C2606   ECEA1 EKKZR2   E. CAPACITOR   25V   2.2U   1		<del></del>	
C2607     ECEA1 BKK2R2   E. CAPACITOR   25V   2.2U   1		_	
C2609		1	
C2610   ECEALCKK4R7   E. CAPACITOR   16V   4.7U   1			
C2611   ECUXIE104ZFN CHIP   25V 0.1U 1			
C2612         ECEALCKS470         E. CAPACITOR         16V         47U         1         COMBI           C2613         ECUX1E104ZFM         CHIP         25V         0.1U         1         22601         VM21092           C2614         ECUX1E104ZFM         CHIP         25V         0.1U         1         1           C2615         ECUX1E103ZFM         CHIP         25V         0.01U         1         1			
C2613     ECUX1E104ZFM   CHIP   25V   0.1U   1			
C2614 ECUX1E104ZFM CHIP 25V 0.1U 1 C2615 ECUX1E103ZFM CHIP 25V 0.01U 1	BINATION PARTS		
C2615 ECUX1E1032FM CHIP 25V 0.01U 1		1	
C2617 ECEAOJKS470 E.CAPACITOR 6.3V 47U 1			
C2618 ECUX1E1042FN CHIP 25V 0.1U 1 ■ VEP05112B SP H	HEAD AMP C.B.A.	1	
C2619 ECEA1EKK2R2 E. CAPACITOR 25V 2.2U 1			
C2620 ECFA1 EKK2R2 E. CAPACITOR 25V 2.2U 1			
C2621     ECEA1EKK2R2   E. CAPACITOR   25V   2. 2U   1		_	
C2622			
C2624   ECUX1E3332FN CHIP   25V 0.033U 1		-	
C2625 ECUX1E3332FN (CHIP 25V 0.033U 1		-	
C2626 BCUX1E333ZFN CHIP 25V 0.033U 1			
C2627 RCUX1E333ZFN CHIP 25V 0.033U 1			
C2628 ECEALAKS470 E. CAPACITOR 10V 47U 1 CAPAC	ACITORS		
C2629   ECUX1E1042FN   CHIP   25V   0.1U   1   C5001   ECUX1C1052F   CHIP	P 16V 1U	1	
CZ630 ECUX1E103ZFM CHIP 25V 0.01U 1 C5002 ECUX1H473ZFN CHIP	P 50V 0.047U	1	
C5003 ECUX1C105ZF CHIP		1	
		1	
DIODES   C5005   ECUX1C1052F   CHIP   D2601   MA151WK   DIODE   1   C5006   ECUX1H4732FN   CHIP	***************************************	1	
D2602   MA151K   DIODE   1   C5007   ECUXIC1052F   CHIP		1	
		1	
	APACITOR 6.3V 47U	1	
INTEGRATED CIRCUITS C5010 ECUX1E1032FM CHIP		1	
IC2501 TA8402F IC 1 C5011 ECUX1C1052F CHIP	P 16V 1U	1	
IC2602 BA6431F IC 1 C5012 ECUX1H470JCM CHIP		1	
IC2603		1	
C5014 ECUXH470JCM CHIP		1	
		1	
		1	
C5017 ECCATEGOSE CHIP		1	
CONNECTORS C5019 ECUX1E103ZFM CHIP		1	
P2601 VJP2245 CONNECTOR (MALE) 1 C5020 ECUX1H470JCM CHIP		1	
P2602 VJS2138 CONNECTOR 1 C5021 ECUX1E103ZFM CHIP	P 25V 0.01U	1	
P2603 VJS2325 CONNECTOR 1 C5022 ECUX1C1052F CHIP	P 16V 1U	1	
P2604 VJP2260 CONNECTOR (MALE) 1 C5023 ECUX1C1052F CHIP		1	
C5024 ECUXIE151JVM CHIP		1	
C5025 ECUXIE270JCM CHIP		1	
TRANSISTORS		1	
		1	
Q2602         2SB819         TRANSISTOR         1   Q,R           C5029         ECUX1E102JCM         CHIP           Q2603         2SB819         TRANSISTOR         1   Q,R           C5030         ECUX1E151JVM         CHIP		1	
Q2604   Q25601   TRANSISTOR   1   Q7R   C5031   ECUX1H390JCM CHIP		1	
C5032   ECUX1E1032FM CHIP		1	
C5033 ECUX1E1032FM CHIP		1	

Dec.   Part No.   Pa								1			
Marie	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Marie	5034	ECUX1E103ZFM	CHIP	1		R5024		ERJ3GEYJ332	CHIP 1/20W 3.3K	1	
Second	5035	ECUX1E103ZFM	CHIP	1		R5025		ERJ3GEYJ332	CHIP 1/20W 3.3K	1	
	5036	ECUX1E103ZFM	CHIP	1		R5026		ERJ3GEYJ103	CHIP 1/20W 10K	1	
Decomposition   Decompositio	5037	ECUX1E103ZFM	CHIP	1		R5027		ERJ3GEYJ182	CHIP 1/20W 1.8K	1	
	5038	ECUX1E103ZFM	CHIP	1		R5028		ERJ3GEYJ182	CHIP 1/20W 1.8K	1	
	5039	ECUX1E103ZFM	CHIP	1		R5029		ERJ3GEYJ182	CHIP 1/20W 1.8K	1	
						R5030		ERJ3GEYJ182	CHIP 1/20W 1.8K	1	
19500   1978-1198   1979   1						R5031		ERJ3GEYJ103	CHIP 1/20W 10K	1	
Page			INTEGRATED CIRCUIT			R5032		ERJ3GEYJ681	CHIP 1/20W 680	1	
	C5001	AN3311S	ic	1		R5033		ERJ3GEYJ182	CHIP 1/20W 1.8K	1	
DOISE						R5034		ERJ3GEYJ102	CHIP 1/20W 1K	1	
						R5035		ERJ3GEYJ152	CHIP 1/20W 1.5K	1	
1900			COILS			R5037		ERJ3GEYJ822	CHIP 1/20W 8.2K	1	
	5001	VLQEL04F101K	COIL 100UH	1		R5038		ERJ3GEYJ391	CHIP 1/20W 390	1	
1909   1909	5002	VLQ0163K330	COIL 33UH	1		R5039		ERJ3GEYJ271	CHIP 1/20W 270	1	
	5003	VLQ0163K180	COIL 18UH	1		R5040		ERJ8GCYJ4R7	CHIP 1/8W 4.7	1	
	5004	VLQ0163K100	COIL 10UH	1		R5041		ERJ3GEYJ473	CHIP 1/20W 47K	1	
Page	5005	VLQEL04F120K	COIL 12UH	1		R5042		ERJ3GEYJ473	CHIP 1/20W 47K	1	
						R5043		ERJ3GEYJ473	CHIP 1/20W 47K	1	
						R5044		ERJ3GEYJ473	CHIP 1/20W 47K	1	
			CONNECTORS			R5045		ERJ3GEYJ471	CHIP 1/20W 470	1	
PRODUCT   MAY	5001	VJP2243	CONNECTOR (MALE)	1			l	ERJ3GEYJ471	+	1	
	5002	VJS2236	CONNECTOR	1		R5047		ERJ3GEYJ471	+····	1	
	5003	VJP2260	CONNECTOR (MALE)	1		R5048		ERJ3GEYJ471	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1	
Second   S											
Second   S											
Second   S			TRANSISTORS							· ·	
Second   Septiment   Second   Second   Septiment   Second	5001	XN1401	TRANSISTOR	1			Ī				,
Company   Comp	5002	2SD1328	TRANSISTOR	1							
Second   S	5003	2SD1328	TRANSISTOR	1							
Second   S	5004	2SD1328	TRANSISTOR	1							
2801328	5005	2SD1328	TRANSISTOR	1				VEP05115B	LP HEAD AMP C.B.A.		
	5006	XN1401	TRANSISTOR	1							
Decomposition   Composition	5007	2SD1328	TRANSISTOR	1							
2011   25B1218   TRANSISTOR   1	8008	2SD1328	TRANSISTOR	1							
CODIT	5009	2SD1328	TRANSISTOR	1							
CONTINUES   CONT	010	2SD1328	TRANSISTOR	1							
Company   Comp	011	2SB1218	TRANSISTOR	1							
C5501   C550	012	2SA812	TRANSISTOR	1							
C5501   ECUNICIOSEP   CHIP   16V   1U   1	5013	2SA1175	TRANSISTOR	1							
C5501   DOMICIOSEF   CHIP   16V   1U   1											
C5502   ECIXIH4732RN CHIP   SOV 0.047U   1									CAPACITORS		
Mail						C5501		ECUX1C105ZF	CHIP 16V 1U	1	
QR5002   XN1213			COMBINATION PARTS			C5502		ECUX1H473ZFN	CHIP 50V 0.047U	1	
QR5006	15001	XN1213	TRANSISTOR-RESISTOR	1		C5503		ECUX1C105ZF	CHIP 16V 1U	1	
QR5005   XN1113   TRANSISTOR-RESISTOR   1   C5506   EGIXIH4732FN   CHIP   50V 0.047U   1	5002	XN1213	TRANSISTOR-RESISTOR	1		C5504		ECUX1H473ZFN	CHIP 50V 0.047U	1	
C5507   C5507   C5507   C5507   C5508   C5507   C5508   C550	5004	XN1113	TRANSISTOR-RESISTOR	1		C5505		ECUX1C1052F	CHIP 16V 1U	1	
C5508   ECUXIH4732FN CHIP   50V 0.047U   1	5005	XN1113	TRANSISTOR-RESISTOR	1		C5506		ECUX1H473ZFN	CHIP 50V 0.047U	1	
RESISTORS		1111				C5507		ECUX1C105ZF	CHIP 16V 1U	1	
RESISTORS				L		C5508	L	ECUX1H473ZFN	CHIP 50V 0.047U	1	
REJOIN   REJGENJIS2   CHIP   1/20W   1.5K   1   C5511   ECUXICIOSEF   CHIP   16V   1U   1   REJOIN   REJOIN   REJGENJIO2   CHIP   1/20W   1.5K   1   C5512   ECUXILIASOLON   CHIP   50V   47P   1   REJOIN   REJGENJIO2   CHIP   1/20W   2.7K   1   C5513   ECUXILIASOLON   CHIP   50V   39P   1   REJGENJIO32   CHIP   1/20W   3.3K   1   C5514   ECUXILIASOLON   CHIP   50V   39P   1   REJGENJIO32   CHIP   1/20W   3.3K   1   C5515   ECUXILIASOLON   CHIP   50V   39P   1   REJOIN   REJGENJIO32   CHIP   1/20W   3.3K   1   C5516   ECUXICIOSEF   CHIP   16V   1U   1   REJOIN   REJGENJIO2   CHIP   1/20W   1.5K   1   C5516   ECUXICIOSEF   CHIP   16V   1U   1   REJOIN   REJGENJIO2   CHIP   1/20W   1.5K   1   C5518   ECUXILIASOLON   CHIP   50V   39P   1   REJGENJIO32   CHIP   1/20W   1.5K   1   C5518   ECUXILIASOLON   CHIP   50V   39P   1   REJGENJIO32   CHIP   1/20W   3.3K   1   C5518   ECUXILIASOLON   CHIP   50V   39P   1   REJGENJIO32   CHIP   1/20W   3.3K   1   C5519   ECUXILIASOLON   CHIP   50V   39P   1   REJGENJIO32   CHIP   1/20W   3.3K   1   C5520   ECUXILIASOLON   CHIP   50V   39P   1   REJGENJIO32   CHIP   1/20W   3.3K   1   C5520   ECUXILIASOLON   CHIP   50V   39P   1   REJGENJIO32   CHIP   1/20W   3.3K   1   C5520   ECUXILIASOLON   CHIP   50V   39P   1   REJGENJIO32   CHIP   1/20W   3.3K   1   C5520   ECUXILIASOLON   CHIP   50V   39P   1   REJGENJIO32   CHIP   1/20W   3.3K   1   C5520   ECUXILIASOLON   CHIP   50V   39P   1   REJGENJIO32   CHIP   1/20W   3.3K   1   C5520   ECUXILIASOLON   CHIP   25V   0.01U   1   REJGENJIO32   CHIP   1/20W   3.3K   1   C5520   ECUXILIASOLON   CHIP   25V   0.01U   1   REJGENJIO32   CHIP   1/20W   3.3K   1   C5520   ECUXILIASOLON   CHIP   25V   0.01U   1   REJGENJIO32   CHIP   1/20W   3.3K   1   C5520   ECUXILIASOLON   CHIP   25V   0.01U   1   REJGENJIO32   CHIP   1/20W   3.3K   1   C5520   ECUXILIASOLON   CHIP   25V   0.01U   1   REJGENJIO32   CHIP   1/20W   3.3K   1   C5520   ECUXILIASOLON   CHIP   25V   0.01U   1   REJGENJIO32   CHIP   1/20W   3.3K   1   C5520   ECUXILIASOLON   CHIP						C5509		ECEAOJKS470	E.CAPACITOR 6.3V 47U	1	
R5002   RJ 3GEYJ102   CHIP   1/20w   1K   1			RESISTORS			C5510		ECUX1E103ZFM	CHIP 25V 0.01U	1	
R5003   ERJ3GEVJ272   CHIP   1/20w   2.7K   1		ERJ 3GEYJ152	CHIP 1/20W 1.5K	1		C5511		ECUX1C105ZF	CHIP 16V 1U	1	
R5004   ERJ 3GEYJ 332   CRIF   1/20W   3.3K   1   C5514   ECUXIH390JCN   CRIF   50V   39P   1   R5005   ERJ 3GEYJ 332   CRIF   1/20W   3.3K   1   C5515   ECUXIE 1032PM   CRIF   16V   1U   1   R5006   ERJ 3GEYJ 332   CRIF   1/20W   1.5K   1   C5516   ECUXIC 1052F   CRIF   16V   1U   1   R5007   ERJ 3GEYJ 352   CRIF   1/20W   1.5K   1   C5517   ECUXIC 1052F   CRIF   16V   1U   1   R5008   ERJ 3GEYJ 302   CRIF   1/20W   1.5K   1   C5518   ECUXIL 1309JCM   CRIF   50V   39P   1   R5009   ERJ 3GEYJ 332   CRIF   1/20W   3.3K   1   C5519   ECUXIC 1032FM   CRIF   25V   0.01U   1   R5010   ERJ 3GEYJ 332   CRIF   1/20W   3.3K   1   C5520   ECUXIC 1052F   CRIF   16V   1U   1   R5011   ERJ 3GEYJ 332   CRIF   1/20W   3.3K   1   C5521   ECUXIC 1032FM   CRIF   25V   0.01U   1   R5012   ERJ 3GEYJ 332   CRIF   1/20W   3.3K   1   C5521   ECUXIC 1052F   CRIF   16V   1U   1   R5014   ERJ 3GEYJ 322   CRIF   1/20W   3.3K   1   C5524   ECUXIC 1052F   CRIF   16V   1U   1   R5014   ERJ 3GEYJ 302   CRIF   1/20W   1.5K   1   C5524   ECUXIC 1052F   CRIF   16V   1U   1   R5015   ERJ 3GEYJ 322   CRIF   1/20W   1.5K   1   C5526   ECUXIC 1052F   CRIF   16V   1U   1   R5016   ERJ 3GEYJ 322   CRIF   1/20W   3.3K   1   C5526   ECUXIC 1052F   CRIF   16V   1U   1   R5016   ERJ 3GEYJ 322   CRIF   1/20W   3.3K   1   C5526   ECUXIC 1052FM   CRIF   25V   0.01U   1   R5017   ERJ 3GEYJ 332   CRIF   1/20W   3.3K   1   C5526   ECUXIC 1032FM   CRIF   25V   0.01U   1   R5018   ERJ 3GEYJ 332   CRIF   1/20W   3.3K   1   C5526   ECUXIC 1032FM   CRIF   25V   0.01U   1   R5019   ERJ 3GEYJ 332   CRIF   1/20W   3.3K   1   C5529   ECUXIC 1032FM   CRIF   25V   0.01U   1   R5020   ERJ 3GEXJ 322   CRIF   1/20W   3.3K   1   C5531   ECUXIC 1032FM   CRIF   25V   0.01U   1   R5021   ERJ 3GEXJ 322   CRIF   1/20W   3.3K   1   C5531   ECUXIC 1032FM   CRIF   25V   0.01U   1   R5022   ERJ 3GEXJ 322   CRIF   1/20W   3.3K   1   C5531   ECUXIC 1032FM   CRIF   25V   0.01U   1	0002	ERJ 3GEYJ102	CHIP 1/20W 1K	1		C5512		ЕСИХ1НЗ9ОЈСМ	CHIP 50V 47P		
R5005   RRJ 3GEYJ332   CHIP   1/20W   3. 3K   1   C5515   ECUXIE1032FM   CHIP   25V   0.01U   1   R5006   RRJ 3GEYJ332   CHIP   1/20W   3. 3K   1   C5516   ECUXIC1052F   CHIP   16V   1U   1   1   1   1   1   1   1   1		ERJ3GEYJ272	CHIP 1/20W 2.7K	1		C5513	L	ECUX1E103ZFM	CHIP 25V 0.01U	1	
R5006 ERJ3GEYJ332 CHIP 1/20W 3.3K 1 C5516 ECUXICIO5ZF CHIP 16V 1U 1 R5007 ERJ3GEYJ152 CHIP 1/20W 1.5K 1 C5517 ECUXICIO5ZF CHIP 16V 1U 1 R5008 ERJ3GEYJ102 CHIP 1/20W 1K 1 C5518 ECUXIH390JCM CHIP 50V 39P 1 C5519 ECUXIEI03ZFM CHIP 25V 0.01U 1 R5010 ERJ3GEYJ332 CHIP 1/20W 3.3K 1 C5520 ECUXIH390JCM CHIP 25V 0.01U 1 R5011 ERJ3GEYJ332 CHIP 1/20W 3.3K 1 C5521 ECUXIEI03ZFM CHIP 25V 0.01U 1 R5013 ERJ3GEYJ332 CHIP 1/20W 3.3K 1 C5522 ECUXIEI03ZFM CHIP 25V 0.01U 1 R5014 ERJ3GEYJ152 CHIP 1/20W 1.5K 1 C5523 ECUXIEI05ZF CHIP 16V 1U 1 R5014 ERJ3GEYJ152 CHIP 1/20W 1.5K 1 C5524 ECUXIEI05ZF CHIP 16V 1U 1 R5015 ERJ3GEYJ102 CHIP 1/20W 1.5K 1 C5526 ECUXIEI05ZF CHIP 16V 1U 1 R5016 ERJ3GEYJ332 CHIP 1/20W 1.5K 1 C5526 ECUXIEI05ZF CHIP 16V 1U 1 R5016 ERJ3GEYJ332 CHIP 1/20W 1.5K 1 C5526 ECUXIEI05ZF CHIP 16V 1U 1 R5016 ERJ3GEYJ332 CHIP 1/20W 3.3K 1 C5526 ECUXIEI05ZF CHIP 25V 0.01U 1 R5016 ERJ3GEYJ332 CHIP 1/20W 3.3K 1 C5526 ECUXIEI05ZF CHIP 25V 0.01U 1 R5016 ERJ3GEYJ332 CHIP 1/20W 3.3K 1 C5526 ECUXIEI03ZFM CHIP 25V 0.01U 1 R5017 ERJ3GEYJ332 CHIP 1/20W 3.3K 1 C5527 ECUXIEI03ZFM CHIP 25V 0.01U 1 R5019 ERJ3GEYJ332 CHIP 1/20W 3.3K 1 C5528 ECUXIEI03ZFM CHIP 25V 0.01U 1 R5019 ERJ3GEYJ332 CHIP 1/20W 3.3K 1 C5529 ECUXIEI03ZFM CHIP 25V 0.01U 1 R5019 ERJ3GEYJ332 CHIP 1/20W 1.5K 1 C5520 ECUXIEI03ZFM CHIP 25V 0.01U 1 R5020 ERJ3GEYJ332 CHIP 1/20W 1.5K 1 C5520 ECUXIEI03ZFM CHIP 25V 0.01U 1 R5020 ERJ3GEYJ332 CHIP 1/20W 1.5K 1 C5520 ECUXIEI03ZFM CHIP 25V 0.01U 1 R5020 ERJ3GEYJ332 CHIP 1/20W 1.5K 1 C5530 ECUXIEI03ZFM CHIP 25V 0.01U 1 R5021 ERJ3GEYJ32 CHIP 1/20W 1.5K 1 C5530 ECUXIEI03ZFM CHIP 25V 0.01U 1 R5021 ERJ3GEYJ32 CHIP 1/20W 1.5K 1 C5531 ECUXIEI03ZFM CHIP 25V 0.01U 1 ERS021 ERJ3GEYJ32 CHIP 1/20W 1.5K 1 ECUXIEI03ZFM CHIP 25V 0.01U 1 ERS022 ERJ3GEYJ32 CHIP 1/20W 2.7K 1 ECUXIEI03ZFM CHIP 25V 0.01U 1 ERS022 ERJ3GEYJ32 CHIP 1/20W 2.7K 1 ECUXIEI03ZFM CHIP 25V 0.01U 1 ERS021 ERJ3GEYJ32 CHIP 1/20W 2.7K 1 ECUXIEI03ZFM CHIP 25V 0.01U 1 ERS021 ERJ3GEYJ32 CHIP 1/20W 2.7K 1 ECUXIEI03ZFM CHIP 25V 0.01U 1 ERS021 ERJ3GEYJ32 CHIP 1/20W 2.7K 1 ECUXIEI03ZFM CHIP 25V 0.		ERJ 3GEYJ 332	CHIP 1/20W 3.3K	1		C5514		ЕСИХ1Н39ОЈСМ	CHIP 50V 39P	1	
R5007 ERJ 3GEYJ152 CHIP 1/20W 1.5K 1 C5517 ECUX1C1052F CHIP 16V 1U 1 R5008 ERJ 3GEYJ102 CHIP 1/20W 1K 1 R5009 ERJ 3GEYJ272 CHIP 1/20W 2.7K 1 R5010 ERJ 3GEYJ332 CHIP 1/20W 3.3K 1 R5011 ERJ 3GEYJ332 CHIP 1/20W 3.3K 1 R5012 ERJ 3GEYJ332 CHIP 1/20W 3.3K 1 R5013 ERJ 3GEYJ332 CHIP 1/20W 10 1 R5014 ERJ 3GEYJ102 CHIP 1/20W 1.5K 1 R5015 ERJ 3GEYJ102 CHIP 1/20W 1K 1 R5016 ERJ 3GEYJ332 CHIP 1/20W 3.3K 1 R5017 ERJ 3GEYJ332 CHIP 1/20W 3.3K 1 R5018 ERJ 3GEYJ332 CHIP 1/20W 3.3K 1 R5019 ERJ 3GEYJ332 CHIP 1/20W 1 I I I I I I I I I I I I I I I I I I	0005	ERJ 3GEYJ 332	CHIP 1/20W 3.3K	1		C5515	L	ECUX1E1032FM	CHIP 25V 0.01U	1	
R5008 ERJ3GFYJ102 CHIP 1/20W 1K 1 C5518 ECUXH390JCM CHIP 50V 39P 1 R5009 ERJ3GFYJ372 CHIP 1/20W 2.7K 1 C5519 ECUXH390JCM CHIP 50V 39P 1 R5010 ERJ3GFYJ332 CHIP 1/20W 3.3K 1 C5520 ECUXH390JCM CHIP 50V 39P 1 R5011 ERJ3GFYJ332 CHIP 1/20W 3.3K 1 C5521 ECUXH390JCM CHIP 25V 0.01U 1 R5012 ERJ3GFYJ332 CHIP 1/20W 3.3K 1 C5522 ECUXH21032FM CHIP 25V 0.01U 1 R5013 ERJ3GFYJ332 CHIP 1/20W 1.5K 1 C5523 ECUXHC1052F CHIP 16V 1U 1 R5014 ERJ3GFYJ102 CHIP 1/20W 1.5K 1 C5524 ECUXH470JCM CHIP 50V 47P 1 R5015 ERJ3GFYJ102 CHIP 1/20W 1K 1 C5524 ECUXH470JCM CHIP 50V 47P 1 R5016 ERJ3GFYJ332 CHIP 1/20W 2.7K 1 C5525 ECUXH21032FM CHIP 25V 0.01U 1 R5017 ERJ3GFYJ332 CHIP 1/20W 3.3K 1 C5526 ECUXH21032FM CHIP 25V 0.01U 1 R5018 ERJ3GFYJ332 CHIP 1/20W 3.3K 1 C5527 ECUXH21032FM CHIP 25V 0.01U 1 R5019 ERJ3GFYJ332 CHIP 1/20W 3.3K 1 C5529 ECUXH21032FM CHIP 25V 0.01U 1 R5020 ERJ3GFYJ322 CHIP 1/20W 1.5K 1 C5530 ECUXH21032FM CHIP 25V 0.01U 1 R5021 ERJ3GFYJ322 CHIP 1/20W 1.5K 1 C5531 ECUXH21032FM CHIP 25V 0.01U 1 R5022 ERJ3GFYJ322 CHIP 1/20W 1.5K 1 C5531 ECUXH21032FM CHIP 25V 0.01U 1 R5022 ERJ3GFYJ322 CHIP 1/20W 1.5K 1 C5532 ECUXH21032FM CHIP 25V 0.01U 1 R5021 ERJ3GFYJ322 CHIP 1/20W 1.5K 1 C5531 ECUXH21032FM CHIP 25V 0.01U 1 R5022 ERJ3GFYJ322 CHIP 1/20W 2.7K 1	006	ERJ3GEYJ332	CHIP 1/20W 3.3K	1		C5516		ECUX1C105ZF	CHIP 16V 1U	1	
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R5018 EJJ3CFYJ332 CHIP 1/20W 3.3K 1 C5528 ECUX1E103ZFM CHIP 25V 0.01U 1 R5019 EJJ3CFYJ332 CHIP 1/20W 3.3K 1 C5529 ECUX1E103ZFM CHIP 25V 0.01U 1 R5020 EJJ3CFYJ152 CHIP 1/20W 1.5K 1 C5530 ECUX1E103ZFM CHIP 25V 0.01U 1 R5021 EJJ3CFYJ102 CHIP 1/20W 1K 1 C5531 ECUX1E103ZFM CHIP 25V 0.01U 1 R5022 EJJ3CFYJ272 CHIP 1/20W 2.7K 1 C5532 ECUX1E103ZFM CHIP 25V 0.01U 1	016	ERJ 3GEYJ272	CHIP 1/20W 2.7K	1		C5526		ECUX1E103ZFM	CHIP 25V 0.01U	1	
R5019 ERJ 3GEY J332 CHIP 1/20W 3.3K 1 C5529 ECUX1E103ZFM CHIP 25V 0.01U 1 R5020 ERJ 3GEY J152 CHIP 1/20W 1.5K 1 C5530 ECUX1E103ZFM CHIP 25V 0.01U 1 R5021 ERJ 3GEY J102 CHIP 1/20W 1K 1 C5531 ECUX1E103ZFM CHIP 25V 0.01U 1 R5022 ERJ 3GEY J272 CHIP 1/20W 2.7K 1 C5532 ECUX1E103ZFM CHIP 25V 0.01U 1	017	ERJ 3GEYJ332	CHIP 1/20W 3.3K	1		C5527		ECUX1E103ZFM	CHIP 25V 0.01U	1	
R5019 ERJ 3GFYJ332 CHIP 1/20W 3.3K 1 C5529 ECUX1E103ZFM CHIP 25V 0.01U 1 R5020 ERJ 3GFYJ152 CHIP 1/20W 1.5K 1 C5530 ECUX1E103ZFM CHIP 25V 0.01U 1 R5021 ERJ 3GFYJ102 CHIP 1/20W 1K 1 C5531 ECUX1E103ZFM CHIP 25V 0.01U 1 R5022 ERJ 3GFYJ272 CHIP 1/20W 2.7K 1 C5532 ECUX1E103ZFM CHIP 25V 0.01U 1	018			1		C5528	·	ECUX1E1032FM	CHIP 25V 0.01U	1	
R5020 ERJ3GEYJ152 CHIP 1/20W 1.5K 1 C5530 ECUX1E103ZFM CHIP 25V 0.01U 1 R5021 ERJ3GEYJ102 CHIP 1/20W 1K 1 C5531 ECUX1E103ZFM CHIP 25V 0.01U 1 R5022 ERJ3GEYJ272 CHIP 1/20W 2.7K 1 C5532 ECUX1E103ZFM CHIP 25V 0.01U 1	019		·	-						_	
R5021 ERJ3GEYJ102 CHIP 1/20W 1K 1 C5531 ECUX1E103ZFM CHIP 25V 0.01U 1 R5022 ERJ3GEYJ272 CHIP 1/20W 2.7K 1 C5532 ECUX1E103ZFM CHIP 25V 0.01U 1	020		h	-							, , , , , , , , , , , , , , , , , , ,
R5022 ERJ 3GEYJ272 CHIP 1/20W 2.7K 1 C5532 ECUX1E1032FM CHIP 25V 0.01U 1	021	<del></del>		1		C5531		ECUX1E103ZFM	CHIP 25V 0.01U	1	
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Ref.No.	+	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	1_	Part No.	Part Name & Description	Pcs	
	┿			-		R5534	+	ERJ3GEYJ102	CHIP 1/20W 1K	1	
	┼	<del> </del>	TANESCO AND CARGO AND CARG	-		R5535	-	ERJ3GEYJ152	CHIP 1/20W 1.5K	1	<del></del>
IC5501	+	AN3311S	INTEGRATED CIRCUITS	1		R5536	-	ERJ3GEYJ332	CHIP 1/20W 3.3K	1	
105501	+-	AN33115		1		R5537	+	ERJ3GEYJ332	CHIP 1/20W 3.3K	1	<del></del>
	<del> </del> -	<del></del>		-		R5538	+-	ERJ3GEYJ332	CHIP 1/20W 3.3K	1	
	-	-	COILS	-	<u> </u>	R5539	-	ERJ3GEYJ332	CHIP 1/20W 3.3K	1	
L5501	+-	VLQEL04F101K	COIL 100UH	1		R5540 R5541	-	ERJ3GEYJ471	CHIP 1/20W 470	1	···
15502	+	VLQ0163K220	COIL 22UH	1		R5542	+	ERJ3GEYJ471 ERJ3GEYJ471	CHIP 1/20W 470	1	<del></del>
L5503	+	VLQ0163K390	COIL 39UH	1		R5542	+	ERJ3GEYJ471	CHIP 1/20W 470 CHIP 1/20W 470	1	
шооо	+-	VIQOIOSIOSO	3761	1		10343	+	ERU3GE134/1	CHIP 1/20W 4/0	+ +	
	+			H		┨┠	+-			+	
	1	<del></del>	CONNECTORS	1	70700.00.00	┧┝	+		<u> </u>	+	
P5501	+	VJP2281	CONNECTOR (MALE)	1		11	-	<u> </u>		+	
P5502	$\top$	VJS2118	CONNECTOR	1		11	1			1	
P5503	†	VJP2271	CONNECTOR (MALE)	1		1	+			+-	
						1	t			+-	
	$\top$			<del> </del>		! <del></del>		VEP06444B	VTR OPERATION C.B.A.	1	
	1		TRANSISTORS	†		1	T-			<del> </del>	
Q5501	$\top$	XN1401	TRANSISTOR	1		1	t			1	
Q5502	T	2SD1328	TRANSISTOR	1			$\top$			†	
Q5503	Ι	2SD1328	TRANSISTOR	1			T			<b>†</b>	
Q5504	Γ	2SD1328	TRANSISTOR	1					******		
Q5505	Γ	2SD1328	TRANSISTOR	1							
Q5506		XN1401	TRANSISTOR	1			L				
Q5507		2SD1328	TRANSISTOR	1							
Q5508	<u> </u>	2SD1328	TRANSISTOR	1					DIODES		
Q5509	<u> </u>	2SD1328	TRANSISTOR	1		D6301		MA165	DIODE	1	
Q5510	_	2SD1328	TRANSISTOR	1		D6304	<u> </u>	MA165	DIODE	1	
Q5511	_	2SB1218	TRANSISTOR	1		D6305	<u> </u>	MA165	DIODE	1	
	_			<u> </u>		D6306		MA165	DIODE	1	
	<u> </u>			ļ		D6307	_	MA165	DIODE	1	
	<u> </u>			ļ	-	D6308	<u> </u>	MA165	DIODE	1	
	├-		COMBINATION PARTS	<u> </u>		D6 309	<u> </u>	MA165	DIODE	1	
QR5501	-	XN1213	TRANSISTOR-RESISTOR	1		D6310	<del> </del>	MA165	DIODE	1	
QR5502	├	XN1213	TRANSISTOR-RESISTOR	1		D6311		MA165	DIODE	1	
QR5504	<del> </del>	XN1113	TRANSISTOR-RESISTOR	1		D6312	ļ	MA165	DIODE	1	
QR5505	⊢	XN1113	TRANSISTOR-RESISTOR	1		D6313	<del> </del>	LN247RCALULF	LED	1	
	+	<del>                                     </del>				D6314 D6315	$\vdash$	LN247RCALULF	LED	1	
	+-	_				l <del> </del>		LN247RCALULF	LED	1	
	$\vdash$		RESISTORS	-		D6316 D6317	⊢	LN247RCALULF	LED	1	
R5501	┼	ERJ3GEYJ152	CHIP 1/20W 1.5K	1	17 - 17 - 17 - 17 - 17 - 17 - 17 - 17 -	D6317		LN247RCALULF	LED		
R5502		ERJ3GEYJ102	CHIP 1/20W 1K	1		D6316 D6319	├	LN247RCALULF	LED	1	
R5503	⊢	ERJ3GEYJ272	CHIP 1/20W 2.7K	1		D6321		MA165	DIODE	1	·
R5504	$\vdash$	ERJ3GEYJ332	CHIP 1/20W 3.3K	1		DUSE1		121103	DIOBE		
R5505	_	ERJ3GEYJ332	CHIP 1/20W 3.3K	1			-				
R5506	_	ERJ3GEYJ473	CHIP 1/20W 47K	1		l			CONNECTORS		
R5507	$\vdash$	ERJ3GEYJ152	CHIP 1/20W 1.5K	1		P6301		VJP2245	CONNECTOR (MALE)	1	*
R5508	Γ	ERJ3GEYJ102	CHIP 1/20W 1K	1	DEFENSE ALL	P6302	-	VJP1607T	CONNECTOR (MALE)	1	*
R5509	Γ	ERJ3GEYJ272	CHIP 1/20W 2.7K	1		·			()		
R5510		ERJ3GEYJ332	CHIP 1/20W 3.3K	1			<b>†</b>			$\vdash$	···
R5511	Γ	ERJ3GEYJ332	CHIP 1/20W 3.3K	1					COMBINATION PARTS	$\vdash$	
R5512		ERJ3GEYJ473	CHIP 1/20W 47K	1		QR6301		UN1114	TRANSISTOR-RESISTOR	1	
R5513		ERJ3GEYJ100	CHIP 1/20W 10	1							
R5514		ERJ3GEYJ152	CHIP 1/20W 1.5K	1							
R5515		ERJ3GEYJ102	CHIP 1/20W 1K	1						$ abla^{\dagger}$	
R5516		ERJ3GEYJ272	CHIP 1/20W 2.7K	1					RESISTORS		
R5517		ERJ3GEYJ332	CHIP 1/20W 3.3K	1		R6301		ERDS2TJ331	C.RESISTOR 1/4W 330	1	
R5518		ERJ3GEYJ332	CHIP 1/20W 3.3K	1		R6302		ERDS2TJ331	C.RESISTOR 1/4W 330	1	
R5519	L	ERJ3GEYJ473	CHIP 1/20W 47K	1		R6303		ERDS2TJ331	C.RESISTOR 1/4W 330	1	
R5520	L	ERJ3GEYJ152	CHIP 1/20W 1.5K	1		R6304		ERDS2TJ331	C.RESISTOR 1/4W 330	1	
R5521	L	ERJ3GEYJ102	CHIP 1/20W 1K	1		R6305	L	ERDS2TJ331	C.RESISTOR 1/4W 330	1	
15522	L	ERJ3GEYJ272	CHIP 1/20W 2.7K	1		R6306		ERDS2TJ331	C.RESISTOR 1/4W 330	1	
25523	L	ERJ3GEYJ332	CHIP 1/20W 3.3K	1		R6307		ERDS2TJ331	C.RESISTOR 1/4W 330	1	
5524	L	ERJ3GEYJ332	CHIP 1/20W 3.3K	1		R6308	<u> </u>	ERDS2TJ391	C.RESISTOR 1/4W 390	1	
35525	L	ERJ3GEYJ473	CHIP 1/20W 47K	1							
25526	L	ERJ3GEYJ103	CHIP 1/20W 10K	1							
R5527	L	ERJ3GEYJ182	CHIP 1/20W 1.8K	1							
15528	L	ERJ3GEYJ182	CHIP 1/20W 1.8K	1		SW6301		VSS0126	SWITCH	1	
15529		ERJ3GEYJ182	CHIP 1/20W 1.8K	1		SW6304		EVQQFQO2K	SWITCH	1	
5530	L	ERJ3GEYJ182	CHIP 1/20W 1.8K	1		SW6305		EVQQFQ02K	SWITCH	1	
5531	L	ERJ3GEYJ103	CHIP 1/20W 10K	1		SW6306		EVQQFQO2K	SWITCH	1	
5532	L	ERJ3GEYJ681	CHIP 1/20W 680	1		SW6307		EVQQFQ02K	SWITCH	1	
15533	L	ERJ3GEYJ182	CHIP 1/20W 1.8K	1		SW6308	L	EVQQFQ02K	SWITCH	1	
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Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
6309	+	EVQQFQO2K	SWITCH	1	reside AS
W6310	+	EVQQFQ02K	SWITCH	1	
W6311	+	EVQQFQ02K	SWITCH	1	
6312	1	EVQQFQ02K	SWITCH	1	
6313	<b>†</b>	EVQQFQO2K	SWITCH	1	
W6314	+	VSS0126	SWITCH	1	
W6315	+	ESD100124	SWITCH	1	
6316	1	VSP0291	SWITCH	1	
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	1.	VEP06445A	CAMERA OPERATION C.B.A.		
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	Ι		CAPACITORS		
6801	Ι	ECEAOJKS101	E.CAPACITOR 6.3V 100U	1	
6802	L	ECEAOJKS101	E.CAPACITOR 6.3V 100U	1	
	$oxed{\Box}$				
				$\perp$	
			DIODES		
D6801	$\perp$	MA165	DIODE	1	
06802	1	MA165	DIODE	1	
D6803	$\perp$	MA165	DIODE	1	
	$\perp$			<u>L</u>	
	$\perp$			<u> </u>	
	1_		CONNECTORS	_	
P6801	1	VJS2111	CONNECTOR	1	
P6802	$\perp$	VJP1612T	CONNECTOR (MALE)	1	
	$\perp$			L	
	$oxed{\Box}$				
	$oxed{\Box}$			L	
	I		RESISTORS		
R6801		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R6802	$\perp$	ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R6803		ERDS2TJ563	C.RESISTOR 1/4W 56K	1	
R6804	Ļ	ERDS2TJ563	C.RESISTOR 1/4W 56K	1	
			A STANDARD COMMENT	L	
SW6801	$\perp$	EVQQSU04W	SWITCH	1	
SW6802		EVQQSU04W	SWITCH	1	
SW6803	<u> </u>	EVQQSU04W	SWITCH	1	
SW6804	<u> </u>	EVQQSU04W	SWITCH	1	
SW6805		EVQQSU04W	SWITCH	1	
SW6806	<u> </u>	EVQQSU04W	SWITCH	1	
SW6807	1	VSS0186	SWITCH	1	
SW6808	1	VSS0220	SWITCH	1	
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	1	VEK3453	ZOOM SW C.B.A.		
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		VEK3454	BACK UP C.B.A.		
		VER:3454	BACK UP C.B.A.	╁.	
		VEK3454	BACK UP C.B.A.	-	
	3	VER(3454	BACK UP C.B.A.		
		VEK3454	BACK UP C.B.A.		
		VEK3454	BACK UP C.B.A.		

## 3.VW-AMC1E/B/A/EA/EN/EM Mechanical Replacement Parts List

Note: 1.\* Be sure to make your orders of replacement parts according to this list.

2. IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components, use only the same type.

15.0. Part Now & Part Name & Description Per Powerham  20.1.1 Nowton? THE PURE	tics	for safety. W	hen replacing any of these o		nents, use only the		-			$\rightarrow$	
2(1) VKM1087 TOP PLATE 1 3(1) VJA0481 AC CORD 1 VW-AMC1E/BG/EP/EN <1> 3(1) VJA0480 AC CORD 1 VW-AMC1B <1> 3(1) VJA0480 AC CORD 1 VW-AMC1A <1> 3(1) VJA0480 AC CORD 1 VW-AMC1A <1> 3(1) VJA0460 AC CORD 1 VW-AMC1A <1> 4(1) VM21102 BARRIER 1 4(1) VKZ1102 BARRIER 1 5(1) VKV0266 BOTTOM PLATE UNIT 1 6(1) VYP2060 FRONT PANEL 1 VW-AMC1E/EG/B/EP/A/EP 6(1) VYP2061 FRONT PANEL 1 VW-AMC1EN/EM 7(1) VYP2075 SIDE PANEL (R) UNIT 1 8(1) VYP2077 SIDE PANEL (L) UNIT 1 9(2) VCQ1346 SW HOLDER 1 12(2) VPN1990 CUSION 1 VW-AMC1A 13(2) VPG3764 PACKING CASE 1 VW-AMC1A 14(2) VCZ2401 OPERATING INSTRUCTIONS 1 VW-AMC1A <1> 15(1) VJF0107 JACK HOLDER 1 16(1) VKF0970 HEAT SINK 1 17(1) ELXO7V552B HEAT SINK 1	same	type.					_				
2(1) VKM1087 TOP PLATE 1 3(1) VJA0481 AC CORD 1 VW-AMC1E/BG/EP/EN <1> 3(1) VJA0480 AC CORD 1 VW-AMC1B <1> 3(1) VJA0480 AC CORD 1 VW-AMC1A <1> 3(1) VJA0480 AC CORD 1 VW-AMC1A <1> 3(1) VJA0460 AC CORD 1 VW-AMC1A <1> 4(1) VM21102 BARRIER 1 4(1) VKZ1102 BARRIER 1 5(1) VKV0266 BOTTOM PLATE UNIT 1 6(1) VYP2060 FRONT PANEL 1 VW-AMC1E/EG/B/EP/A/EP 6(1) VYP2061 FRONT PANEL 1 VW-AMC1EN/EM 7(1) VYP2075 SIDE PANEL (R) UNIT 1 8(1) VYP2077 SIDE PANEL (L) UNIT 1 9(2) VCQ1346 SW HOLDER 1 12(2) VPN1990 CUSION 1 VW-AMC1A 13(2) VPG3764 PACKING CASE 1 VW-AMC1A 14(2) VCZ2401 OPERATING INSTRUCTIONS 1 VW-AMC1A <1> 15(1) VJF0107 JACK HOLDER 1 16(1) VKF0970 HEAT SINK 1 17(1) ELXO7V552B HEAT SINK 1							1			ļļ	
2(1) VKM1087 TOP PLATE 1 3(1) VJA0481 AC CORD 1 VW-AMC1E/BG/EP/EN <1> 3(1) VJA0480 AC CORD 1 VW-AMC1B <1> 3(1) VJA0480 AC CORD 1 VW-AMC1A <1> 3(1) VJA0480 AC CORD 1 VW-AMC1A <1> 3(1) VJA0460 AC CORD 1 VW-AMC1A <1> 4(1) VM21102 BARRIER 1 4(1) VKZ1102 BARRIER 1 5(1) VKV0266 BOTTOM PLATE UNIT 1 6(1) VYP2060 FRONT PANEL 1 VW-AMC1E/EG/B/EP/A/EP 6(1) VYP2061 FRONT PANEL 1 VW-AMC1EN/EM 7(1) VYP2075 SIDE PANEL (R) UNIT 1 8(1) VYP2077 SIDE PANEL (L) UNIT 1 9(2) VCQ1346 SW HOLDER 1 12(2) VPN1990 CUSION 1 VW-AMC1A 13(2) VPG3764 PACKING CASE 1 VW-AMC1A 14(2) VCZ2401 OPERATING INSTRUCTIONS 1 VW-AMC1A <1> 15(1) VJF0107 JACK HOLDER 1 16(1) VKF0970 HEAT SINK 1 17(1) ELXO7V552B HEAT SINK 1		Τ΄		T							
2(1) VKM1087 TOP PLATE 1   1	ef.No.	Part No.	Part Name & Description	Pcs	Remarks		T				
3(1)   VJAO481   AC CORD   1   VW-AMC1E/BG/EP/EN (1)				+							
3(1) VJA0480 AC CORD 1 VW-AMCIB (1) 3(1) VJA0448 AC CORD 1 VW-AMCIA/EA (1) 3(1) VJA0460 AC CORD 1 VW-AMCIEM (1) 4(1) WZ1102 BARRIER 1 5(1) VKV0266 BOTTOM PLATE UNIT 1 6(1) VYP2060 FRONT PANEL 1 VW-AMCIE/EB/B/EP/A/EN 6(1) VYP2061 FRONT PANEL 1 VW-AMCIEN/EM 7(1) VYP2075 SIDE PANEL (R) UNIT 1 8(1) VYP2077 SIDE PANEL (L) UNIT 1 9(2) VGQ1346 SW HOLDER 1 12(2) VFN1990 CUSION 1 VW-AMCIA 13(2) VFG3764 PACKING CASE 1 VW-AMCIA 14(2) VQT2401 OPERATING INSTRUCTIONS 1 VW-AMCIA (1) 15(1) VJF0107 JACK HOLDER 1 16(1) VKF0970 HEAT SINK 1						h	-+			-	
3(1) VJA0448 AC CORD 1 VW-AMCIA/EA (1)				+-			-+			$\vdash$	
3(1) VJA0460 AC CORD 1 VW-AMCIEM (1) 4(1) VM21102 BARRIER 1 1 5(1) VKU0266 BOTTOM PLATE UNIT 1 1 6(1) VYP2060 FRONT PANEL 1 VW-AMCIE/EG/B/EP/A/EM 6(1) VYP2061 FRONT PANEL 1 VW-AMCIE/EM/EM 7(1) VYP2075 SIDE PANEL (R) UNIT 1 8(1) VYP2077 SIDE PANEL (L) UNIT 1 9(2) VCQ1346 SW HOLDER 1 1 12(2) VPN1990 CUSION 1 VW-AMCIA 13(2) VPS3764 PACKING CASE 1 VW-AMCIA 14(2) VCT2401 OPERATING INSTRUCTIONS 1 VW-AMCIA (1) 15(1) VJF0107 JACK HOLDER 1 16(1) VKF0970 HEAT SINK 1 17(1) ELY07V552B HEAT SINK 1	3(1)	VJA0480		-				,,,, <del>,,,,</del>			
4(1) WZ1102 BARRIER 1	3(1)	VJA0448	AC CORD	1	VW-AMC1A/EA					$\sqcup$	
4(1) W21102 BARRIER 1			AC CORD	1	VW-AMC1EM						
5(1) VKU0266 BOTTOM PLATE UNIT 1 6(1) VYP2060 FRONT PANEL 1 VM-AMCLE/EG/B/EP/A/EA 6(1) VYP2061 FRONT PANEL 1 VM-AMCLEN/EM 7(1) VYP2075 SIDE PANEL (R) UNIT 1 8(1) VYP2077 SIDE PANEL (L) UNIT 1 9(2) VGQ1346 SW HOLDER 1 12(2) VPN1990 CUSION 1 VM-AMCLA 13(2) VPG3764 PACKING CASE 1 VM-AMCLA 14(2) VQT2401 OPERATING INSTRUCTIONS 1 VM-AMCLA 15(1) VJF0107 JACK HOLDER 1 16(1) VKF0970 HEAT SINK 1 1 VM-AMCLA 1 17(1) ELY07V552B HEAT SINK 1				1							
6(1)											
6(1) VYP2061 FRONT PANEL 1 VW-AMCIEN/EM  7(1) VYP2075 SIDE PANEL (R) UNIT 1  8(1) VYP2077 SIDE PANEL (L) UNIT 1  9(2) VCQ1346 SW HOLDER 1  2(2) VFN1990 CUSION 1 VW-AMCIA  3(2) VPG3764 PACKING CASE 1 VW-AMCIA  4(2) VQT2401 OPERATING INSTRUCTIONS 1 VW-AMCIA 4(2)  5(1) VJF0107 JACK HOLDER 1  6(1) VKF0970 HEAT SINK 1  7(1) ELY07V552B HEAT SINK 1						<b>-</b>				$\vdash$	
7(1)	6(1)	VYP2060	FRONT PANEL				_				
7(1) VYP2075 SIDE PANEL (R) UNIT 1 8(1) VYP2077 SIDE PANEL (L) UNIT 1 9(2) VCQ1346 SW HOLDER 1 2(2(2) VPN1990 CUSION 1 VW-AMCIA 3(2) VPG3764 PACKING CASE 1 VW-AMCIA 4(2) VQT2401 OPERATING INSTRUCTIONS 1 VW-AMCIA (1) 15(1) VJF0107 JACK HOLDER 1 16(1) VKF0970 HEAT SINK 1 1 (1) ELY07V552B HEAT SINK 1	6(1)	VYP2061	FRONT PANEL	1	VW-AMC1EN/EM						
8(1)			SIDE PANEL (R) UNIT	1							
9(2) VCQ1346 SW HOLDER 1				1							
12(2)   VPN1990   CUSION   1   VW-AMCIA											
3(2) VPG3764 PACKING CASE 1 VW-AMCIA 4(2) VQT2401 OPERATING INSTRUCTIONS 1 VW-AMCIA (1) 5(1) VJF0107 JACK HOLDER 1 6(1) VKF0970 HEAT SINK 1 7(1) ELY07V552B HEAT SINK 1 1				-			$\vdash$				
4(2) VQT2401 OPERATING INSTRUCTIONS 1 VW-AMCIA (1) 5(1) VJF0107 JACK HOLDER 1 6(1) VKF0970 HEAT SINK 1 7(1) ELY07V552B HEAT SINK 1	2(2)	VPN1990				ļ				-	
5(1) VJF0107 JACK HOLDER 1 6(1) VKF0970 HEAT SINK 1 7(1) ELYO7V552B HEAT SINK 1	3(2)	VPG3764	PACKING CASE	1	VW-AMC1A					Ш	
5(1) VJF0107 JACK HOLDER 1 5(1) VKF0970 HEAT SINK 1 7(1) ELY07V552B HEAT SINK 1	4(2)	VQT2401	OPERATING INSTRUCTIONS	1	VW-AMC1A						
7(1) ELYO7V552B HEAT SINK 1			JACK HOLDER	1					1		
(1) ELYO7V552B HEAT SINK 1				$\rightarrow$							
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	(2)	VJA0401	DC CABLE	1	(1)	l <b></b>	$\sqcup$			ļ	<u> </u>
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	$\rightarrow$			+-	<del> </del>	l	$\vdash$		<u> </u>	<del> </del>	<u> </u>
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Note: 1.\* Be sure to make your orders of replacement parts according to this list.

2. IMPORTANT SAFETY NOTICE
Components identified with the mark <!>> have the special characteristics of the same type affect. When replacing any of these components use only the same type.

3. Unless otherwise specified.
All resistors are in ORMS ,K-1,000 ORMS. All capacitors are in MICROFRADS(uf),P-unF.

4. The P.C. Board units marked width "show below the main assembled parts."

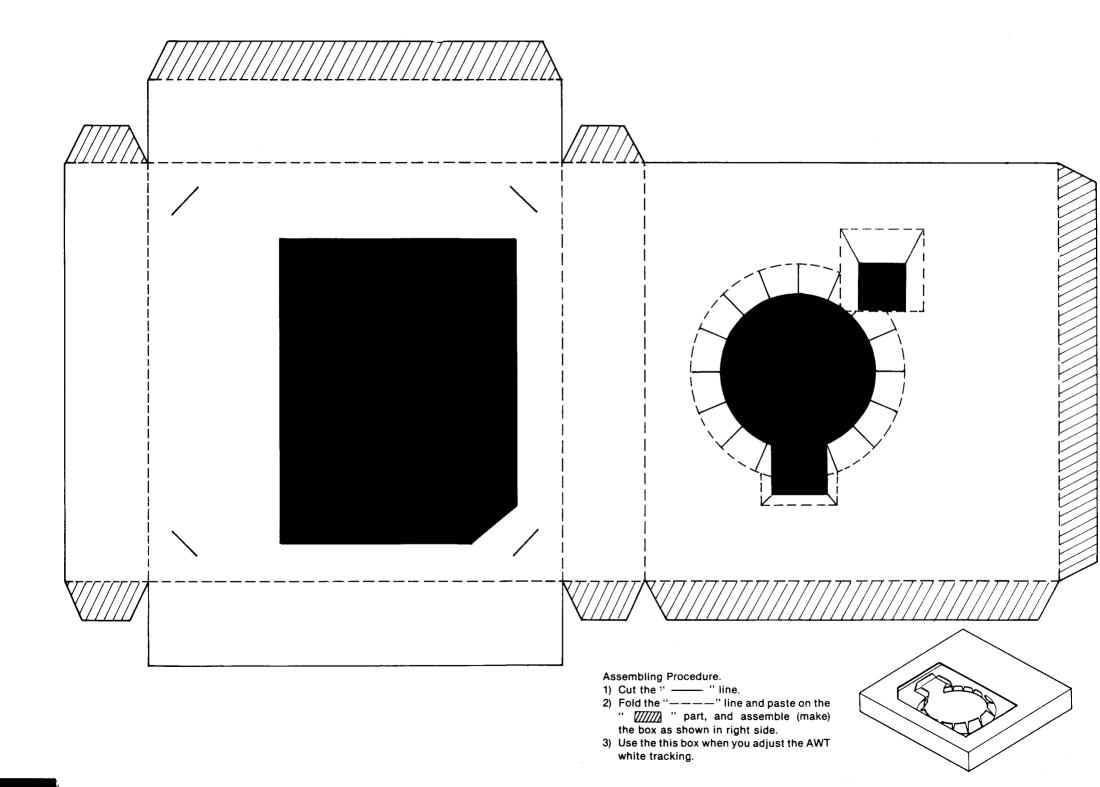
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D13	MA165	DIODE	1	
D14	MA165	DIODE	1	
D15	ERA22-04	DIODE	1	-177
D16	MA4062M	DIODE	1	
D17	MA4062M	DIODE	1	
D18	MA4062M	DIODE	1	
	ERA22-04	DIODE	1	
D19	ERM22-0-	DIODE	1	
			+-	
·				
		FUSE	↓	
F01	XBA2C10TB0	FUSE	1	<1>
			<u> </u>	
			1	
		INTEGRATED CIRCUITS	L	
ICO1	HA178L05	IC	1	
		1	+	
		CONNECTOR	+	,
JK1	VJJ0174	CONNECTOR	1	
JKI	V3301, 4	CONTECTOR	+-	
	_		$\vdash$	
		<u> </u>	$\vdash$	,
		COILS	<u> </u>	
LO2	ELF18D29OA	COIL 29UH	+	(1)
LO3	ELF18D290A	COIL 29UH	1	(1)
L04	VLQ0292	COIL	1	
1.5	VLP0043	COIL	1	
L6	VLP0043	COIL	1	
L07	VLP0064	COIL	1	
TO8	VLP0064	COIL	1	
100	ATT 000-2	COLL	1	
		<u> </u>	+	
		<u> </u>	$\vdash$	
	<u> </u>	CONNECTORS	$\sqcup$	
P1	VJP1141	CONNECTOR (MALE)	1	
P2	VJP1141	CONNECTOR (MALE)	1	
			$\top$ $\rfloor$	
		PHTO COUPLER		
PC01	PC111	PHTO COUPLER	1	
1	-		$\vdash$	
	<del></del>		$\vdash$	
<del> </del>	<del></del>	TRANSISTORS	+	
201	25V909		+ +	
Q01	25K808	TRANSISTOR TRANSISTOR	+	<1>
Q02	2SB952	TRANSISTOR	1	
Q03	2SB952	TRANSISTOR	1	
Q04	2SB952	TRANSISTOR	1	
<b>Q</b> 05	2SD1458	TRANS1 STOR	1	
Q06	2SD636	TRANSISTOR	1	(Q,R,S)
Q07	2SD636	TRANSISTOR		(Q,R,S)
***			+-1	(**
	ı			
	·	I	1 1	
		RESISTORS		
RO1	ERC12GM334	S.RESISTOR 1/2W 330K	+	<1>
RO1 RO2	ERDS2TJ114	S.RESISTOR 1/2W 330K C.RESISTOR 1/4W 110K	1	
	<del></del>	S.RESISTOR 1/2W 330K	+	
RO2	ERDS2TJ114	S.RESISTOR 1/2W 330K C.RESISTOR 1/4W 110K	1	
RO2 RO3	ERDS2TJ114 ERDS2TJ114	S.RESISTOR	1	
RO2 RO3 RO4	ERDS2TJ114 ERDS2TJ114 ERDS2TJ114	S. RESISTOR 1/2W 330K C. RESISTOR 1/4W 110K C. RESISTOR 1/4W 110K C. RESISTOR 1/4W 110K	1 1 1	(1)
RO2 RO3 RO4 RO5 RO6	ERDS2TJ114 ERDS2TJ114 ERDS2TJ114 ERDS2TJ114	S.RESISTOR   1/2W   330K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     M.RESISTOR   2W   33K	1 1 1	
R02 R03 R04 R05 R06 R07	ERDS2TJ114 ERDS2TJ114 ERDS2TJ114 ERDS2TJ114 ERGS2TJ114 ERG2SJ333 ERG2SJ333	S.RESISTOR   1/2W   330K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     M.RESISTOR   2W   33K     M.RESISTOR   2W   33K     33K	1 1 1 1 1	
RO2 RO3 RO4 RO5 RO6 RO7 RO8	ERDS2TJ114 ERDS2TJ114 ERDS2TJ114 ERDS2TJ114 ERDS2TJ114 ERG2SJ333 ERG2SJ333 ERK1SJR82P	S.RESISTOR	1 1 1 1 1 1	<1>
R02 R03 R04 R05 R06 R07 R08 R09	ERDSZTJ114 ERDSZTJ114 ERDSZTJ114 ERDSZTJ114 ERDSZTJ114 ERGZSJ333 ERGZSJ333 ERX1SJR82P ERDSZTJ221	S.RESISTOR   1/2W   330K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     M.RESISTOR   2W   33K     M.RESISTOR   2W   33K     M.RESISTOR   1W   0.82     C.RESISTOR   1/4W   220	1 1 1 1 1 1 1	
R02 R03 R04 R05 R06 R07 R08 R09 R10	ERDSZTJ114 ERDSZTJ114 ERDSZTJ114 ERDSZTJ114 ERDSZTJ114 ERGZSJ333 ERGZSJ333 ERX1SJR6ZP ERDSZTJ221 ERDSZTJ221	S.RESISTOR   1/2W   330K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     M.RESISTOR   2W   33K     M.RESISTOR   2W   33K     M.RESISTOR   1W   0.82     C.RESISTOR   1/4W   220     C.RESISTOR   1/4W   47	1 1 1 1 1 1 1 1	<1>
R02 R03 R04 R05 R06 R07 R08 R09 R10	ERDSZTJ114 ERDSZTJ114 ERDSZTJ114 ERDSZTJ114 ERDSZTJ114 ERGZSJ333 ERGZSJ333 ERGLSJ333 ERGLSJ332 ERDSZTJZ21 ERDSZTJZ21 ERDSZTJZ23	S.RESISTOR   1/2W   330K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     M.RESISTOR   2W   33K     M.RESISTOR   2W   33K     M.RESISTOR   1W   0.82     C.RESISTOR   1/4W   220     C.RESISTOR   1/4W   47     C.RESISTOR   1/4W   22K	1 1 1 1 1 1 1 1 1	
R02 R03 R04 R05 R06 R07 R08 R09 R10	ERDSZTJ114 ERDSZTJ114 ERDSZTJ114 ERDSZTJ114 ERDSZTJ114 ERGZSJ333 ERGZSJ333 ERX1SJR6ZP ERDSZTJ221 ERDSZTJ221	S.RESISTOR   1/2W   330K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     M.RESISTOR   2W   33K     M.RESISTOR   2W   33K     M.RESISTOR   1W   0.82     C.RESISTOR   1/4W   220     C.RESISTOR   1/4W   47     C.RESISTOR   1/4W   22K     C.RESISTOR   1/4W   22K     C.RESISTOR   1/4W   18K	1 1 1 1 1 1 1 1	
R02 R03 R04 R05 R06 R07 R08 R09 R10	ERDSZTJ114 ERDSZTJ114 ERDSZTJ114 ERDSZTJ114 ERDSZTJ114 ERGZSJ333 ERGZSJ333 ERGLSJ333 ERGLSJ332 ERDSZTJZ21 ERDSZTJZ21 ERDSZTJZ23	S.RESISTOR   1/2W   330K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     M.RESISTOR   2W   33K     M.RESISTOR   2W   33K     M.RESISTOR   1W   0.82     C.RESISTOR   1/4W   220     C.RESISTOR   1/4W   47     C.RESISTOR   1/4W   22K	1 1 1 1 1 1 1 1 1	<
R02 R03 R04 R05 R06 R07 R08 R09 R10 R11	ERDSZTJ114 ERDSZTJ114 ERDSZTJ114 ERDSZTJ114 ERDSZTJ114 ERGZSJ333 ERGZSJ333 ERGZSJ333 ERX1SJR82P ERDSZTJJ221 ERDSZTJ470 ERDSZTJ223 ERDSZTJ223	S.RESISTOR   1/2W   330K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     M.RESISTOR   2W   33K     M.RESISTOR   1W   0.82     C.RESISTOR   1/4W   220     C.RESISTOR   1/4W   47     C.RESISTOR   1/4W   22K     C.RESISTOR   1/4W   22K     C.RESISTOR   1/4W   18K     C.RESISTOR   1/4W   330	1 1 1 1 1 1 1 1 1 1	<
R02 R03 R04 R05 R06 R07 R08 R09 R10 R11 R12 R13 R14	ERDSZTJ114 ERDSZTJ114 ERDSZTJ114 ERDSZTJ114 ERGSZTJ114 ERGZSJ333 ERGZSJ333 ERX1SJR82P ERDSZTJ221 ERDSZTJ221 ERDSZTJ223 ERDSZTJ233 ERDSZTJ331	S.RESISTOR   1/2W   330K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     C.RESISTOR   1/4W   110K     M.RESISTOR   2W   33K     M.RESISTOR   2W   33K     M.RESISTOR   1W   0.82     C.RESISTOR   1/4W   220     C.RESISTOR   1/4W   27     C.RESISTOR   1/4W   22K     C.RESISTOR   1/4W   18K     C.RESISTOR   1/4W   330     M.RESISTOR   1/4W   8.2K     M.RESISTOR   1/4W   1.0K     M.RESISTOR   1/4W   1.0K	1 1 1 1 1 1 1 1 1 1 1 1	
R02 R03 R04 R05 R06 R07 R08 R09 R10 R11 R12 R13 R14 R15	ERDSZTJ114 ERDSZTJ114 ERDSZTJ114 ERDSZTJ114 ERGSZTJ114 ERGZSJ333 ERGZSJ333 ERGZSJ333 ERGZSJ221 ERDSZTJ221 ERDSZTJ221 ERDSZTJ223 ERDSZTJ2331 ERDSZTJ331 EROSZCKG8201 ERDSZTJ181	S.RESISTOR	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R02 R03 R04 R05 R06 R07 R08 R09 R10 R11 R12 R12 R13 R14 R15 R16	ERDSZTJ114 ERDSZTJ114 ERDSZTJ114 ERDSZTJ114 ERDSZTJ114 ERGSZJ333 ERCZSJ333 ERX1SJR82P ERDSZTJ221 ERDSZTJ221 ERDSZTJ221 ERDSZTJ223 ERDSZTJ311 ERDSZTJ311 ERDSZTJ311 ERDSZTJ311 ERDSZTJ311	S.RESISTOR	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<
R02 R03 R04 R05 R06 R07 R08 R09 R10 R11 R12 R13 R14 R15 R16 R17	ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERGSSJ333  ERX1SJR82P  ERDSZTJ221  ERDSZTJ221  ERDSZTJ223  ERDSZTJ333  ERDSZTJ331  ERDSZTJ331  ERDSZTJ331  ERDSZTJ331  ERDSZTJ331  ERDSZTJ331  ERDSZTJ331  ERDSZTJ3181  ERDSZTJ381	S.RESISTOR	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<
R02 R03 R04 R05 R06 R07 R08 R09 R10 R11 R12 R13 R14 R14 R15 R16 R17 R18	ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERDSZTJ1131  ERDSZTJ221  ERDSZTJ221  ERDSZTJ233  ERDSZTJ183  ERDSZTJ183  ERDSZTJ181  ERDSZTJ181	S.RESISTOR	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<
R02 R03 R04 R05 R06 R07 R08 R09 R10 R11 R12 R13 R14 R15 R16 R17 R18	ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERDSZTJ121  ERDSZTJ221  ERDSZTJ221  ERDSZTJ183  ERDSZTJ183  ERDSZTJ181  ERDSZTJ181  ERDSZTJ181  ERDSZTJ181  ERDSZTJ181  ERDSZTJ181  ERDSZTJ181  ERDSZTJ181  ERDSZTJ103  ERDSZTJ103  ERDSZTJ103  ERDSZTJ103	S.RESISTOR	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R02 R03 R04 R05 R06 R07 R08 R09 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20	ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERGSSJ333  ERGSSJ333  ERX1SJR82P  ERDSZTJ221  ERDSZTJ221  ERDSZTJ223  ERDSZTJ233  ERDSZTJ183  ERDSZTJ181  ERDSZTJ181  ERDSZTJ181  ERDSZTJ181  ERDSZTJ181  ERDSZTJ103  ERDSZTJ103  ERDSTJ101  ERDSTJ101	S.RESISTOR	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<
R02 R03 R04 R05 R06 R07 R08 R09 R10 R11 R12 R13 R14 R15 R16 R17 R18	ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERDSZTJ114  ERDSZTJ121  ERDSZTJ221  ERDSZTJ221  ERDSZTJ183  ERDSZTJ183  ERDSZTJ181  ERDSZTJ181  ERDSZTJ181  ERDSZTJ181  ERDSZTJ181  ERDSZTJ181  ERDSZTJ181  ERDSZTJ181  ERDSZTJ103  ERDSZTJ103  ERDSZTJ103  ERDSZTJ103	S.RESISTOR	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<

	P.C.Board unit	s marked width' show below	the	main assembled parts.	D16	MA4062M	DIODE	1	<del> </del>
					D17	MA4062M	DIODE	1	
					D18	MA4062M	DIODE	1	
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	D19	ERA22-04	DIODE	1	
	VEP61011A	MAIN C.B.A.	1				FUSE		
			T		F01	XBA2C1OTBO	FUSE	1	
			1						
	VEP60050A	PRIMARY COIL CONTROL C.B.A.	1					1	
	122 00000.		+-			1	INTEGRATED CIRCUITS		
			1		IC01	HA178L05	IC	1	
	VEP60051A	CHARGE CONTROL C.B.A.	1		1001	IIII / OLOG	1	1	
	VEPOOOSIA	CHARGE CONTROL C.B.A.	+ *		<u> </u>	<del> </del>		-	
			<del> </del>	-	-	<del> </del>	CONNECTOR		
			+-			11110124		-	
	VEP60049A	LED C.B.A.	1		JK1	VJJ0174	CONNECTOR	1	<del></del>
-		<del> </del>	+		<b></b>			_	
			-	-	<del>                                     </del>			_	
			├-				COILS		
		<del> </del>	↓		102	ELF18D29OA	COIL 29UH		(1)
			<del> </del>	ļ	1.03	ELF18D29OA	COIL 29UH		(1)
			<b>ļ</b>	ļ	1.04	VLQ0292	COIL	1	
		-	ļ		1.5	VLP0043	COIL	1	
		<b></b>	<u> </u>		1.6	VLP0043	COIL	1	
	■ VEP61011A	MAIN C.B.A.	1		107	VLP0064	COIL	1	
			<u> </u>		TOB	VLP0064	COIL	1	
			<u> </u>						
							CONNECTORS		
					P1	VJP1141	CONNECTOR (MALE)	1	
					P2	VJP1141	CONNECTOR (MALE)	1	
			T						
			T						
			T						
		CAPACITORS	<u> </u>			1	PHTO COUPLER		
x05	ECQU2A104MN	P. CAPACITOR 100V 0.1U	1	(1)	PC01	PC111	PHTO COUPLER	1	
06	VCK0046	C. CAPACITOR 1000P	+	(!)		<del>                                     </del>		Ĥ	
07	VCK0046	C. CAPACITOR 1000P	+	(1)		<del>                                     </del>			
x08	<del></del>		+-	(1)	<b>—</b>	ļ	TRANSISTORS	<u> </u>	
	VCKOO46	C. CAPACITOR 1000P	+	+	001	2SK808	TRANSISTOR	1	7,5
09	ECKD2H151KB	E.CAPACITOR 500V 150U	1	+	Q01			-	(1)
10	ECOS2GG470D	E.CAPACITOR 400V 47U	1		Q02	2SB952	TRANSISTOR	1	
11	ECQE2104KF	P.CAPACITOR 0.1U	1	<del></del>	Q03	2SB952	TRANSISTOR	1	
12	ECCD3A470KG		1	+	Q04	2SB952	TRANSISTOR	1	
13	ECKD2H101KB	E.CAPACITOR 500V 100U	1	<del>+</del>	Q05	2SD1458	TRANSISTOR	1	
:14	ECEA1VGE220	E. CAPACITOR 35V 22U	1		Q06	2SD636	TRANSISTOR		(Q,R,S)
15	ECEA1VFE101	E. CAPACITOR 35V 100U	1	-	Q07	2SD636	TRANSISTOR	1	(Q,R,S)
16	ECEA1EFE471	E.CAPACITOR 25V 470U	1						
17	ECEA1EFE471	E. CAPACITOR 25V 470U	1						
:18	ECEA1CKS100	E.CAPACITOR 16V 10U	1						
19	ECEA1CKS100	E.CAPACITOR 16V 10U	1				RESISTORS	Ĺ	
20	ECEA1EGE471	E.CAPACITOR 25V 470U	1		RO1	ERC12GM334	S.RESISTOR 1/2W 330K	1	(1)
:21	ECEA1VFE270	E.CAPACITOR 35V 27U	1		RO2	ERDS2TJ114	C.RESISTOR 1/4W 110K	1	
22	ECEAOJKS470	E.CAPACITOR 6.3V 47U	1		RO3	+	C.RESISTOR 1/4W 110K	1	
23	ECEA1CKS100	E.CAPACITOR 16V 10U	1		RO4	ERDS2TJ114	C.RESISTOR 1/4W 110K	1	
24	ECKF1H1032F	C.CAPACITOR 50V 0.01U	1		RO5	·	C.RESISTOR 1/4W 110K	1	
25	ECKF1H103ZF	C. CAPACITOR 50V 0.01U	1		RO6	ERG2SJ333	M.RESISTOR 2W 33K	1	
26	VCKO046	C. CAPACITOR 1000P	+	(1)	RO7	ERG2SJ333	M.RESISTOR 2W 33K	1	
	100000	OT GENERAL LONG	Ť	1	RO8		M.RESISTOR 1W 0.82	1	
	<del></del>		-		RO9	ERDS2TJ221	C.RESISTOR 1/4W 220	1	
		DIADEC	+		R10			1	
		DIODES	+	100	R10	ERDS2TJ470	C.RESISTOR 1/4W 47 C.RESISTOR 1/4W 22K	1	
01	S1WBA60	DIODE	-	(1)		ERDS2TJ223			
02	APO1CV2	DIODE	1		R12	ERDS2TJ183	C.RESISTOR 1/4W 18K	1	
03	ERA82-004	DIODE	1	<del> </del>	R13	ERDS2TJ331	C.RESISTOR 1/4W 330	1	
04	MA4270LTA	DIODE	1		R14	+	M.RESISTOR 1/4W 8.2K	1	
05	ERA22-04	DIODE	1		R15	ERDS2TJ181	C.RESISTOR 1/4w 180	1	
06	ERA22-04	DIODE	1		R16	ERDS2TJ821	C.RESISTOR 1/4W 820	1	
07	MA649	DIODE	1	<del></del>	R17	ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
08	MA4110M	DIODE	1		R18	ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
09	31DQ04FC5	DIODE	1		R19	ERDS1TJ101	C.RESISTOR 1/2W 100	1	
10	31DQ04FC5	DIODE	1		R20	ERDS1TJ181	C.RESISTOR 1/2W 180	1	
11	MA165	DIODE	1		R21	ERDS1TJ181	C.RESISTOR 1/2W 180	1	
12	MA165	DIODE	1		R22	ERX1SJR33P	M.RESISTOR 1W 0.33	1	
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R23	+	ERDS2TJ100	C.RESISTOR 1/4W 10	1	Reside AS	R104	┿	Part No.	Part Name & Description	PCS	
R24		ERDS2TJ120	C.RESISTOR 1/4W 12	1	-,	R105	+	ERJ6GMYJ223	CHIP 1/16W 22K	1	
R25	+-	ERD2FCG470	C.RESISTOR 2W 47	1		1	+	ERJ6GMYJ223	CHIP 1/16W 22K	1	
1025	+	EGET CO470	C.RESISION ZW 47	+		R106	+	ERJ6GMYJ153	CHIP 1/16W 15K	1	· · · · · · · · · · · · · · · · · · ·
	+			┼		R107	╁	ERJ6CMYJ101	CHIP 1/16W 100	1	
	+		TRANSFORMAR			R108	╁	ERJ6GMYJ220	CHIP 1/20W 22K	1	
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<b>——</b>	+			<del> </del>		C203	+-	ECUX1H102KBN	CHIP 50V 1000P	1	
<b> </b>	+	-		+-		C204	-	ECUM1E224ZFM	CHIP 25V 0.22U	1	
	+	1		┼		C205	-	ECUX1H102KBN	CHIP 50V 1000P	1	
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			CRYSTAL OSCILLATOR	<u> </u>		C208	_	ECUX1E104ZFM	CHIP 25V 0.1U	1	
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R102	T	ERJ6GMYJ391	CHIP 1/16W 390	1		R209		ERJ6GMYJ223	CHIP 1/16W 22K	1	
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R215	<del> </del>	ERJ6GMYJ332	CHIP 1/16W	3.3K	1						+	
R216	H	ERJ6CMYJ682	CHIP 1/16W	6.8K	1						+	
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R225		ERJ6GMYJ473	CHIP 1/16W	47K	1							
R226		ERJ6GMYJ183	CHIP 1/16W	18K	1						1	
R227	Π	ERJ6GMYJ102	CHIP 1/16W	1K	1							
228	1	ERJ6GMYJ102	CHIP 1/16W	1K	1							
3229	1	ERJ6GMYJ103	CHIP 1/16W	10K	1							
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231		ERJ6GMYJ103	CHIP 1/16W	10K	1							
1232	L	ERJ6GMYJ102	CHIP 1/16W	1K	1							
233	L	ERJ6GMYJ103	CHIP 1/16W	10K	1							
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# Service Manual

General Description Adjustment Procedures Block/Schematic Diagrams Exploded Views/Parts List



VW-RFC1



VW-CG1



VW-SHMC1



VW-CG1 E/EN

ITEM	SPECIFICATIONS
POWER	DC 4.85V
VIDEO	INPUT: VIDEO IN CONNECTOR (VW-CG1E: BNC type) 1.0Vp-p 75Ω terminated (VW-CG1EN: PHONO type)
VIDEO	OUTPUT: VIDEO OUT CONNECTOR (VW-CG1E: BNC type) 1.0Vp-p 75Ω terminated (VW-CG1EN: PHONO type)
WEIGHT	155 g (without Batteries)
DIMENSIONS	71 (W) $\times$ 142 (H) $\times$ 26 (D) mm
ACCESSORIES	3pcs. Button-type Alkaline Batteries (LR44H) 1pc. Shoe Adaptor

#### VW-RFC1 E/B/A/EN

ITEM	SPECIFICATIONS	
RF OUT SYSTEM	UHF:36±4CH (VW-RFC1 E/B/EN) (PAL G/I)	
RF OUT SISTEM	VHF: 0/1CH (VW-RFC1A) (PAL G)	
DIMENSIONS	$52 \text{ (W)} \times 24 \text{ (H)} \times 93 \text{ (D)}$	

Weight and dimensions shown are approximate Specifications are subject to change without notice.



### **INTRODUCTION**

This servicemanual contains technical information which will allow service technicians to understand and service these models. VW-CG1, VW-RFC1, VW-SHMC1, VW-GP1 are accessories for NV-MC10. VW-CG1 can be used to NV-M7.

Please place orders using the parts list and not the drawing reference numbers.

If the circuit is changed or modified, this information will be followed by supplementary service manual to be filed with original service manual.

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## 1. VW-CG1E, EN

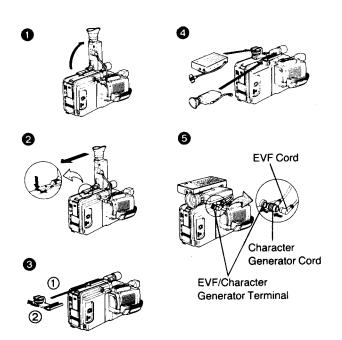
## **SECTION 1: General Descriptions**

### 1-1-1 FEATURES

- Title Recording
- Time/Date Recording
- Stopwatch Recording
- Superimpose Title Recording During Dubbing
- Multi-Language Capability

### 1-1-2 HOW TO ATTACH THE VW-CG1

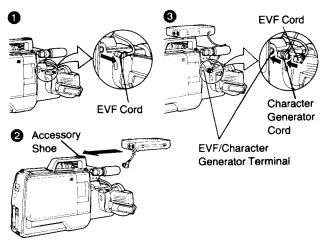
Use the Shoe Adaptor that is supplied with the Character Generator.



- 1 Disconnect the EVF Cord and turn the EVF upward.
- Keep pressing the part indicated by the arrow and remove the EVF by sliding it toward the rear.
- 3 Attach the Shoe Adaptor and tighten the screw.
- Attach the EVF and the Character Generator to the Shoe Adaptor.
- 6 Insert the plug of the EVF Cord into the back of the plug of the Character Generator Cord and insert them together into the EVF/Character Generator Terminal.

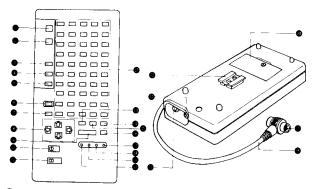
The use of the Character Generator makes it possible to record titles, time, date and stopwatch while shooting some scene.

### How to Attach the Character Generator



- 1 Disconnect the EVF Cord.
- 2 Attach the Character Generator to the Accessory Shoe.
- 3 Insert the plug of the EVF Cord into the back of the plug of the Character Generator Cord and insert them together into the EVF/Character Generator Terminal.

# 1-1-3 CONTROLS COMPONENTS AND FUNCTIONS



### DISPLAY Button

For displaying or deleting titles on the screen.

### **2** PAGE Button

For changing pages.

#### START/STOP Button

For starting/stopping the stopwatch, and starting/stopping the scrolling during recording.

## 4 LAP/RESET Button

For indicating the lap time, resetting the stopwatch and resetting scrolling to the beginning during preview.

## **5** SCROLL Button

This button is used for different functions in the title scroll mode.

#### 6 CLEAR Button

For returning the cursor to the beginning of the first line. When used with the SHIFT Button, it deletes all titles on the page.

#### SPACE Button

For leaving a blank space the size of one character.

#### 8 Cursor Buttons

For moving the cursor or (when used with the SHIFT Button) moving the titles, or changing the scrolling speed.

#### SHIFT Button

This button must be pressed together with another button.

	Functions
SIZE Button	To change the size of the characters of the line on which the cursor is placed.
Letter/ Number/ Symbol Buttons	To input small letters while in the capital letter mode, or for inputting capital letters while in the small letter mode. In the symbol mode, this button has no effect.
Cursor Buttons	To move the titles.
PAGE Button	To change to the previous page.
CLEAR Button	To delete all titles on the page being displayed. (The page is also erased in the memory.)

### 10 Date Selector (DATE-DATE/CLOCK)

For selecting the Date Indication or the Date/Clock Indication.

#### Mode Selector

For selecting the mode (title editing, title recording, stopwatch, auto date).

#### Letter/Number/Symbol Buttons

For inputting letters, numbers and symbols.

#### SIZE Button

For selecting the size of the characters for the titles.

#### SYMBOL Button

For inputting symbols.

#### **®** SMALL LETTER Button

For selecting capital letters (upper case) or small letters (lower case).

#### **®** DELETE Button

For deleting one character to the left of the cursor.

#### Mounting Adaptor Foot

Attach the supplied Shoe Adaptor and mount the Character Generator on the VHS/VHS-C Movie.

# W Video Input Jack (VIDEO IN)

For superimposing titles while dubbing from the VHS/VHS-C Movie onto another VTR.

### Video Output Jack (VIDEO OUT)

For superimposing titles while dubbing from the VHS/VHS-C Movie onto another VTR.

#### 2 Battery Compartment

Install the button-type batteries for memory back-up.

#### **B** EVF Terminal

Connect the Electronic Viewfinder of the VHS/VHS-C Movie to this terminal.

#### **6** Connection Cable

Connect this cable to the EVF Terminal of the VHS/VHS-C Movie.

### Buttons used for setting the date and the time ( $oldsymbol{0} \sim oldsymbol{0}$ )

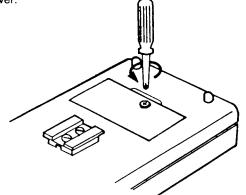
- **1** SET Button
- **B** SHIFT Button
- ADJ Button

#### 20 ALL RESET Button

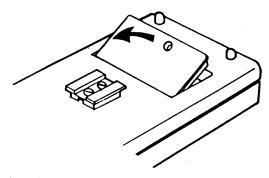
Pressing this button deletes all memorized titles.

## 1-1-4 INSTALLING THE BATTERIES

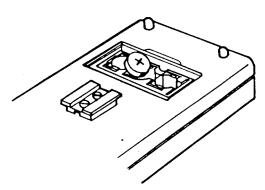
 Remove the screw of the battery compartment cover with a screwdriver.



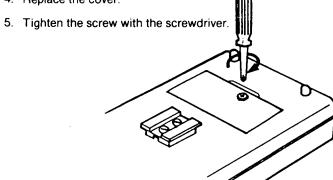
2. Remove the cover.



3. Insert three button-type alkaline batteries (LR44H) with their plus (+) side facing up.



4. Replace the cover.



In this Character Generator, three button-type alkaline batteries (LR44H) are used for memory back-up. Even when the VHS/VHS-C Movie is turned off, the composed titles are still memorized as long as the batteries are not exhausted. The battery life is approximately 3~4 months.

#### Replacing the Batteries

If the batteries are replaced with the Character Generator or the VHS/VHS-C Movie turned off, the memory will be erased.

When replacing the batteries, follow the instructions below.

- Connect the Character Generator to the VHS/VHS-C Movie, and turn the camera on.
- 2. Install three new batteries.

Besides the LR44H type batteries, MR44, NR44 and LR44 type batteries can also be used.

## **Button-type Alkaline Batteries**

Keep the button-type alkaline batteries out of the reach of children. If a battery is swallowed, consult a doctor immediately.

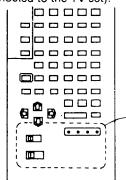
• If battery leakage has occurred, wipe off the liquid completely and then install new batteries.

To prevent bursting or leaking of the batteries:

- Be sure to replace all three batteries with new ones at the same time.
- •Install the batteries with their polarities (+) and (-) correctly aligned.
- Do not short-circuit, charge, disassemble or overheat the batteries, nor throw them into a fire.

#### 1-1-5 SETTING THE CLOCK

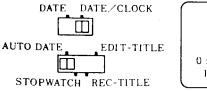
Turn on the VHS/VHS-C Movie to which the Character Generator is connected, and set the clock while watching the Electronic Viewfinder (or the TV screen when the camera is connected to the TV set).

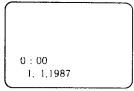


The clock can only be set with the buttons and switches of this section.

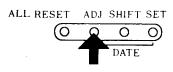
Automatic clock indication is possible till December 31, 2010, 23:59, as long as the batteries are not exhausted. When the clock is reset, it will start from January 1, 1987, 0:00.

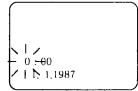
- When the batteries become weak, a wrong date and time will be displayed (for example, 15:70). In this case, immediately replace the batteries with new ones. After the replacement, set the date and time again.
- Set the Mode Selector to "AUTO DATE" and the Date Selector to "DATE/CLOCK".
  - The date and time will be displayed in the lower left corner of the screen.
  - •When the Date Selector is set to "DATE", only the date will be displayed.



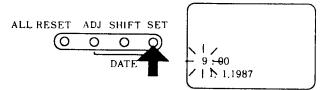


- 2. Press the ADJ Button.
  - The first part of the indication will flash.
  - Press the ADJ, SHIFT and SET Buttons with the tip of a ball-point pen, etc.

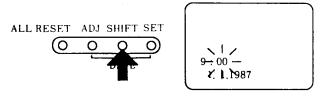




- Set the flashing part of the indication by pressing the SET Button.
  - Keeping the SET Button pressed will change the indication continuously.



- 4. Press the SHIFT Button.
  - The next part of the indication will flash.



- Repeat steps 3 and 4 to set the hour, minute, day, month and year.
- When the setting of the clock is completed, press the ADJ Button again.
  - The operation of the clock will now start.

#### • How the Indications Change

Hour 
$$0 - 1 - 2 - 3 - 4 - \dots - 22 - 23$$
 Minute  $00 - 01 - 02 - 03 - \dots - 57 - 58 - 59$  Day  $1 - 2 - 3 - 4 - \dots - 28 - (29) - (30) - (31)$  Month  $1 - 2 - 3 - 4 - 5 - \dots - 10 - 11 - 12$  Year  $1987 - 1988 - 1989 - \dots - 2009 - 2010$ 

## How the Flashing Part of the Indication Changes

### Moving the Display Position

Press the appropriate Cursor Button while pressing the SHIFT Button. Just like your own titles, the date and time indication can also be moved up and down, right and left.

- The new position of the date and time indication will be memorized.
- Recording the Date and/or the Time

Set the Mode Selector to "AUTO DATE".

- The date and/or the time can be recorded in the same way as the titles. (See page 18.)
- It is possible to display or delete the indication by pressing the DISPLAY Button.

# 1-1-6 COMPOSING AND EDITING THE TITLES

Before shooting, compose and edit titles that you may later want to use during recording.

As the composed titles are memorized, it is possible to revise them later and to insert them at desired positions during recording.

Compose and edit the titles while watching the Electronic Viewfinder of the VHS/VHS-C Movie, or the TV screen. Connect the VHS/VHS-C Movie to the TV set in the same way as when the Character Generator is not mounted. (See the operating instructions of the VHS/VHS-C Movie.)

#### Title Pages

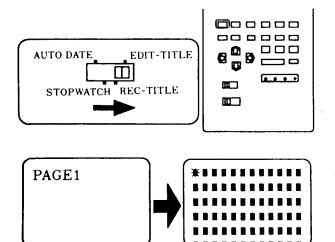
Title pages 1 to 9 can be used for titles only and on PAGE A, both titles and auto date indication can be displayed at the same time. (See the table below.)

Display Contents and Functions	PAGE 1 ~ PAGE 9	PAGE A
Character Size	S, M, L, LL	М
Maximum Number of Characters (1 page)	20 characters × 9 lines = 180 characters	12 characters × 4 lines = 48 characters
Title Movement. Scroll Function	Yes	No
Auto Date Indication	No	Yes

- 1. Set the Mode Selector to "EDIT-TITLE".
  - •The indication "PAGE 1" will be displayed in the upper left corner of the screen for about 1 second and then the "■" marks indicating the character size will appear for 12 characters × 6 lines. (The 6th line will not be displayed completely.)

The flashing "" mark indicates the position of the cursor.

 If the Lens Cap is put on the VHS/VHS-C Movie, the indications become easier to see.



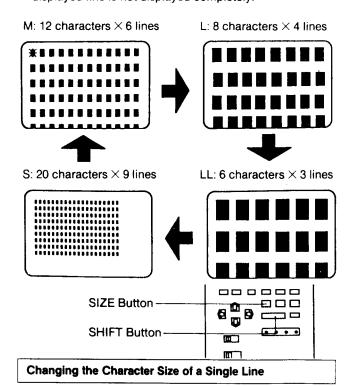
Select the desired character size by pressing the SIZE Button.

There are four different character sizes to choose from.

#### Changing the Size of All Characters on the Screen

The "M" character size is automatically selected by default. By pressing the SIZE Button, the character size changes as shown below.

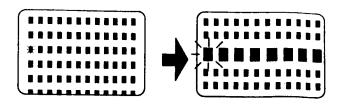
•When a character size other than "S" is selected, the last displayed line is not displayed completely.



Move the cursor to the line where you want to change the character size, and then press the SIZE Button while pressing the SHIFT Button.

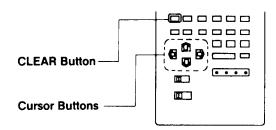
After the size is changed, the cursor will move to the beginning of the line.

 When an already composed title is changed to a larger size, the end of the title may be cut off on the screen because it is too long.



- If the SIZE Button is pressed after changing the character size of individual lines on a page, all lines will be changed to the next larger size, as illustrated on the left.
- It is possible to change the character size after inputting characters.

- To move the cursor to the position where you want to input characters, press the Cursor Button for the desired direction.
  - Keeping the Cursor Button pressed moves the cursor continuously.



Button: The cursor moves to the right.

After reaching the end of a line, it moves to the

beginning of the next lower line.

Button: The cursor moves to the left.

After reaching the beginning of a line, it moves

to the end of the next higher line.

**Button:** The cursor moves to the beginning of the next

lower line.

After reaching the bottom line, it returns to the

beginning of the top line.

Button: The cursor moves to the beginning of the next

higher line.

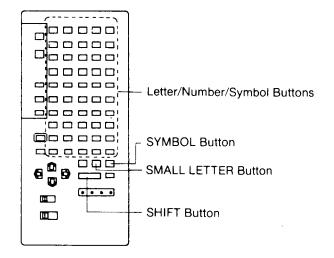
After reaching the top line, it returns to the

beginning of the bottom line.

- •The capacity of a title page is 9 lines irrespective of the character size.
  - When a character size other than "S" is selected, the cursor may leave the screen at the right or at the bottom.
- When the CLEAR Button is pressed, the cursor will return to the beginning of the top line.

#### 4. Input characters.

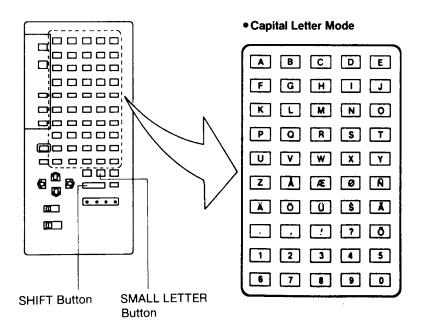
•Use the buttons shown in the illustration below.



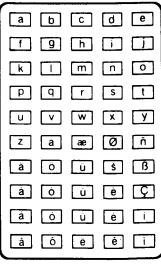
 Pressing the SMALL LETTER Button puts the unit in the small letter mode and small letters can be input. To input capital letters while in this mode, input them while pressing the SHIFT Button. To return the unit to the capital letter mode, press the SMALL LETTER Button again.

### Inputting Letters, Numbers and Symbols

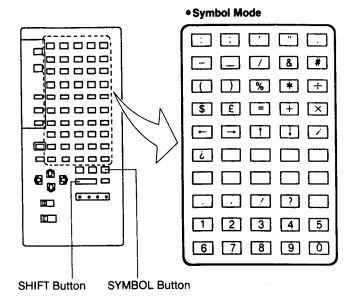
By pressing the Letter/Number/Symbol Buttons, the characters which are indicated on the buttons (capital letters) can be input. To input small letters, press the buttons while keeping the SHIFT Button pressed.



# Small Letter Mode



 Pressing the SYMBOL Button puts the unit in the symbol mode and symbols can be input. In this mode, the SHIFT Button does not function.

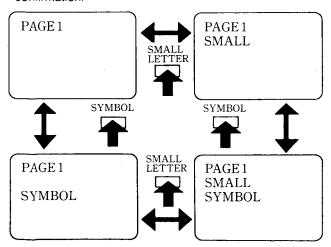


#### Inputting Spaces

To leave a space between words, press the SPACE Button. You can also create blank space by moving the cursor.

#### Confirmation of the Selected Input Mode

If the DELETE Button is pressed together with the SHIFT Button, the input mode will be displayed on the screen for confirmation.



 After a character has been input, the cursor will move to the right to the position for the next character.

#### Deleting Characters

Move the cursor to the right of the character to be deleted and press the DELETE Button. The character to the left of the cursor will be deleted and the cursor will move to the position of the deleted character.

- Keeping the DELETE Button pressed will delete the characters to the left of the cursor continuously.
- If the DELETE Button is pressed when the cursor is at the beginning of the first (top) line, the last character at the end of the last (bottom) line will be deleted.

#### Deleting All Characters on a Page

To delete all characters on a page, press the CLEAR Button together with the SHIFT Button. The cursor will return to the beginning of the first (top) line and the "■" marks will appear for 12 characters × 6 lines on the screen.

#### Moving Titles

By pressing the appropriate Cursor Button together with the SHIFT Button, the whole title on the screen can be moved up and down, right and left.

Keeping one of the Cursor Buttons pressed will move the whole title continuously.

Button: The whole title moves to the right.

Button: The whole title moves to the left.

Button: The whole title moves down.

**Button:** The whole title moves up.

 When moving titles, move them so that they do not leave the screen. The characters which are not on the screen will not be recorded in the normal title recording mode.

#### Changing Pages

To advance to the next page after composing a title on PAGE 1, press the PAGE Button.

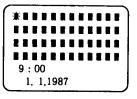
- After the indication "PAGE 2" is displayed in the upper left corner of the screen for about 1 second, the "■" marks will appear for 12 characters × 6 lines.
- Pressing the PAGE Button changes the pages as shown below.

 Pressing the PAGE Button together with the SHIFT Button changes the pages backward.

#### PAGE A

When PAGE A is reached while changing the pages, the "
""
marks for 12 characters × 4 lines and the date and time are
displayed.

• It is not possible to move the title or to change the character size on PAGE A.



If the Date Selector is set to "DATE/CLOCK", the date and time will be displayed; if it is set to "DATE", only the date will be displayed under the title.

#### 1-1-7 TITLE RECORDING

Recording composed titles during shooting.

- Insert a tape into the VHS/VHS-C Movie and put the camcorder into the recording pause mode. (For details about the operation, read the Operating Instructions of the VHS/VHS-C Movie.)
- 2. Set the Mode Selector to "REC-TITLE".
  - •When this switch is changed from "EDIT-TITLE" to "REC-TITLE", the page number followed by the title of that page (which was displayed in the "EDIT-TITLE" mode) appear on the screen. In this case, the "■" marks which appeared in the "EDIT-TITLE" mode will not appear on the screen.
- Select the title page that you want to record.
   The pages can be changed in the same way as in the "EDIT-TITLE" mode. It is also possible to select the desired page directly, as described below on the right.
  - When changing the pages in the "REC-TITLE" mode, the page number indication does not appear.
- Press the DISPLAY Button to remove the title from the screen.
- Start shooting by pressing the Start/Stop Button on the VHS/VHS-C Movie. At the point where you want to superimpose the title, press the DISPLAY Button. To end the superimpose recording of the title (while letting the shooting continue), press the DISPLAY Button again.

### • Changing the Character Size

Pressing the SIZE Button changes the size of all characters on the screen. The character size will be changed in the same order as in the "EDIT-TITLE" mode. It is not possible to change the character size line by line.

 Any change made in the character size in the "REC-TITLE" mode has no influence on the character size of the title memorized in the "EDIT-TITLE" mode.

### Moving Titles

To move the title, press the appropriate Cursor Button together with the SHIFT Button in the same way as in the "EDIT-TITLE" mode.

 Moving the titles in the "REC-TITLE" mode has no influence on the title positions memorized in the "EDIT-TITLE" mode.

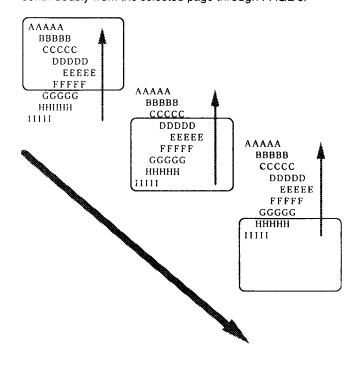
#### How to Select the Desired Page Directly

Select the desired title page directly by pressing the corresponding Number Button (1  $\sim$  9) or the Letter Button "A".

• If the page or the mode is changed when the title is not displayed, the title will appear automatically.

#### 1-1-8 SCROLL RECORDING

The Scroll Recording Function makes it possible to record the composed titles while scrolling them from the bottom to the top of the screen. The scrolling will be performed continuously from the selected page through PAGE 9.



#### Checking the Pages to Be Used for Scrolling

Be sure to check the scroll screen in the "EDIT-TITLE" mode before performing the scroll recording. (See the next page.)

Perform the check page by page.

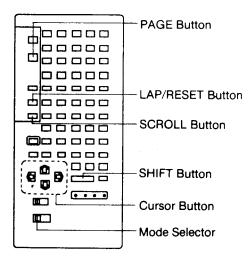
The capacity of the scroll screen is limited to 9 lines per page.

If the titles that were composed in the "EDIT-TITLE" mode use characters of a larger size than "M" or a combination of different character sizes, be careful because the characters which are not displayed on the screen will also be scrolled.

When preparing titles for scrolling, compose them with the character size "S" for 9 lines and then change them to the desired size, starting from the last line. In this way, the titles can be composed while also confirming the characters that will not be displayed on the screen.

Even if you move the title position when composing the titles, all titles will automatically start at the beginning (left side) of each line when they are scrolled. Therefore, compose the titles so that they start at the original position.

For the scroll recording, the buttons and the selector shown in the illustration below are used.



#### Scrolling Preview

- 1. Set the Mode Selector to "EDIT-TITLE".
- 2. Press the SCROLL Button.
- 3. Scrolling preview will start and the lines 1 to 9 will appear at the bottom of the screen and scroll to the top until the last line has left the screen.
- 4. The screen will revert to the condition before scrolling.
- 5. Change to the next page and check it.
  - If the SCROLL Button is pressed in the middle of scrolling, the scrolling will stop and the character in the upper left corner of the screen will flash.
  - In this condition, you can correct the letters and change the character size.
  - To continue scrolling, press the SCROLL Button again.
  - To stop the scrolling preview and return to the beginning of the scrolled title, press the LAP/RESET Button.
    - The screen will return to the former condition and stop.
    - •To start scrolling again, press the SCROLL Button.

#### Recording Procedure

- Set the Mode Selector to "REC-TITLE".
  - When this switch is changed from "EDIT-TITLE" to "REC-TITLE", the title page which was displayed in the "EDIT-TITLE" mode will appear.
- 2. Call up the title page from which you want to start scrolling by pressing the PAGE Button repeatedly.
  - You can also select the desired page directly (see page 18).

- 3. Press the SCROLL Button.
  - The title on the screen will disappear and the unit will be in the scroll standby mode. In this mode, it is not possible to change the page or to select the page directly.
- 4. Press the START/STOP Button of the Character Generator.

The scrolling will start.

- PAGE A cannot be scrolled.
   Even if PAGE A is selected, the scrolling will start from PAGE 1
- To interrupt the scrolling at any desired point, press the START/STOP Button.

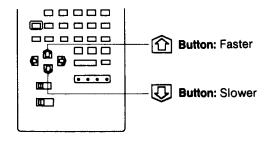
To continue the scrolling, press the START/STOP Button again.

- When the last line of PAGE 9 has left the top of the screen, the scrolling will finish automatically. At this time, no title will be displayed on the screen.
- If the LAP/RESET Button is pressed during scrolling, the scrolling will be reset and the start page will be displayed.

#### Changing the Scrolling Speed

The scrolling speed can be changed in 6 steps in both the "EDIT-TITLE" mode and the "REC-TITLE" mode by pressing the SCROLL Button and then the appropriate Cursor Button.

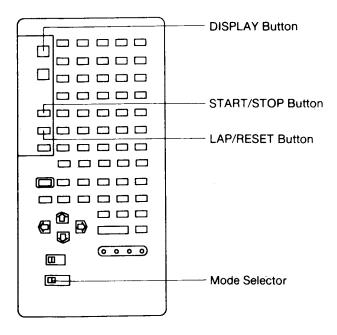
• The changed scrolling speed will be memorized.



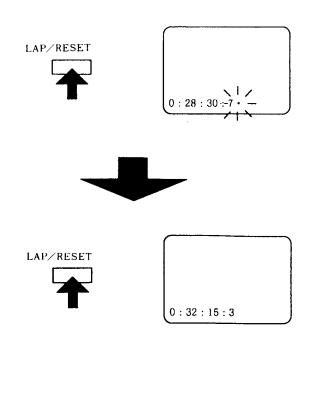
## 1-1-9 HOW TO USE THE STOP WATCH

This Character Generator also features a stopwatch function that counts and displays the elapsed time in 1/10-second increments.

For the stopwatch operation, the buttons and the selector shown in the illustration below are used.



- 1. Set the Mode Selector to "STOPWATCH".
  - The stopwatch time will be displayed in the lower left corner of the screen.
- 2. Press the START/STOP Button.
  - The stopwatch will start working.
  - It can count and display the time up to 9:59'59"9.
- 3. To stop the stopwatch, press the START/STOP Button again.
  - The stopped time will be displayed on the screen.
- 4. To continue the counting from that position, press the START/STOP Button again.
- 5. To reset the stopwatch to zero, press the START/STOP Button to stop the counting and then press the LAP/RESET Button.
- By pressing the DISPLAY Button, the stopwatch indication can be deleted from the screen and be displayed again.
  - •The stopwatch is working even if it is not displayed.



#### Lap Time Indication

If the LAP/RESET Button is pressed while the stopwatch is working, the counter will stop and a blinking dot will appear on the right of the counter indication. Pressing the LAP/RESET Button again will display the actual ongoing count again. The stopwatch continues working while the lap time is displayed. If you press the START/STOP Button in this condition, the dot indicator on the right of the counter indication will stop blinking and be lit and the time counter will stop.

#### Moving the Display Position

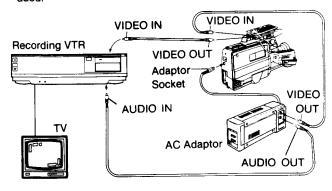
The stopwatch indication can also be moved up and down, right and left, just like the titles. Press the appropriate Cursor Button while pressing the SHIFT Button. The changed display position will be memorized even if the mode is changed.

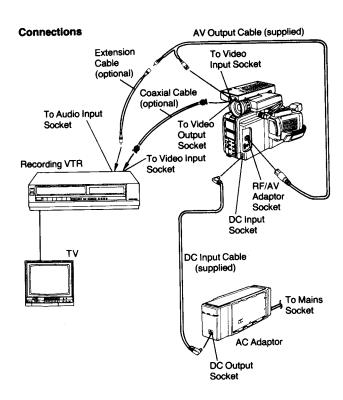
# 1-1-10 SUPERIMPOSE TITLE RECORDING DURING DUBING

It is possible to add titles to already recorded scenes by superimposing them during dubbing from the VHS/VHS-C Movie.

#### Connections

 Carefully read the operating instructions of all units to be used.





#### Operation

- 1. Turn on all connected units.
- Insert a recorded tape into the VHS/VHS-C Movie and locate the scene onto which you want to superimpose a title, and put the camcorder in the playback pause mode just slightly before that scene.
- 3. Put the recording VTR in the recording pause mode.

- Set the Mode Selector on the Character Generator to "REC-TITLE".
  - To superimpose the stopwatch or the date, set the Mode Selector to "STOPWATCH" or "AUTO DATE".
- Select the title page or the mode to be used for the superimpose recording. Confirm that the title and/or the auto date indication or the stopwatch is displayed on the TV screen.
- 6. Put the recording VTR in the recording mode and the VHS/VHS-C Movie in the playback mode.
  - The superimpose recording will start.
  - To finish the dubbing, press the Stop Button on both the VHS/VHS-C Movie and the recording VTR.
- To delete the title while letting the dubbing continue, press the DISPLAY Button. When you want to perform scrolling, refer to the procedure for scroll recording (p. 21).

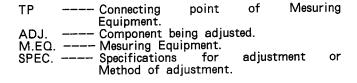
# **SECTION 2: Adjustment Produres**

### 1-2-1 TEST EQUEPMENTS

The following equipments are required for adjustments.

- (1) Oscilloscope Dual Trace,30 MHz,2mV/Div 10:1 or 1:1 Prove
- (2) Frequency Counter
- (3) Monitor TV

# 1-2-2 HOW TO READ THE ADJUSTMENT PROCEDURES



#### 1-2-3 CHARACTER POSITION ADJUSTMENT

TP	ADJ.	M.EQ.									
VIDEO OUT	VR1	MONITOR									
	SPEC										
CH	ARACTER IS	CENTER									

- Connect the VW-CG1 to VHS/VHS-C Movie then set the Mode Selector to REC-TITLE Mode and turn on the VHS/VHS-C Movie.
   Press the ALL RESET Key and adjust VR1 so that
- character portion is center.

### 1-2-4 CHARACTER SPHERE ADJUSTMENT

TP	ADJ.	M.EQ.
VIDEO OUT TP 2	VR 2	OSCILLOSCOPE
	SPEC	
	$T = 1.6 \pm 0.5$	μsec

- (1) Connect the VW-CG1 to VHS/VHS-C Movie then set the Mode Selector to REC-TITLE and turn on
- the VHS/VHS-C Movie.
  Adjust VR2 so that the period "T" becomes 1.6+-0.5usec.

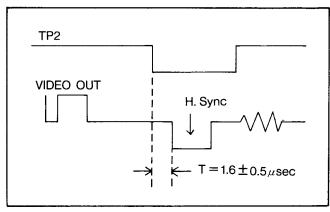


Fig. E1

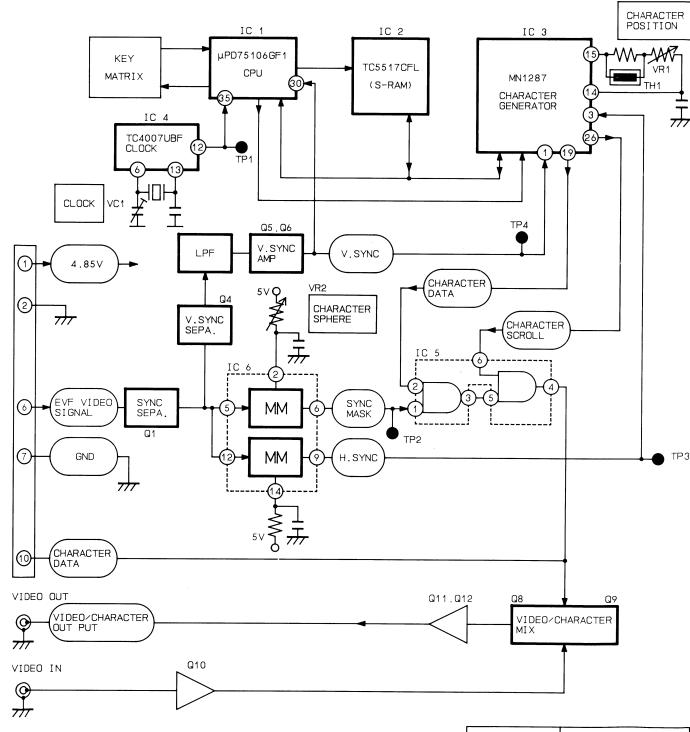
#### 1-2-5 CLOCK FREQUENCY ADJUSTMENT

TP	ADJ.	M.EQ.									
TP1	VC 1	FREQUENCY COUNTER									
	SPEC										
	40960000 ± 1Hz										

- (1) Connect the VW-CG1 to VHS/VHS-C Movie then turn on the VHS/VHS-C Movie.
   (2) Adjust VC1 so that frequency becomes
- 40960000+-1Hz.

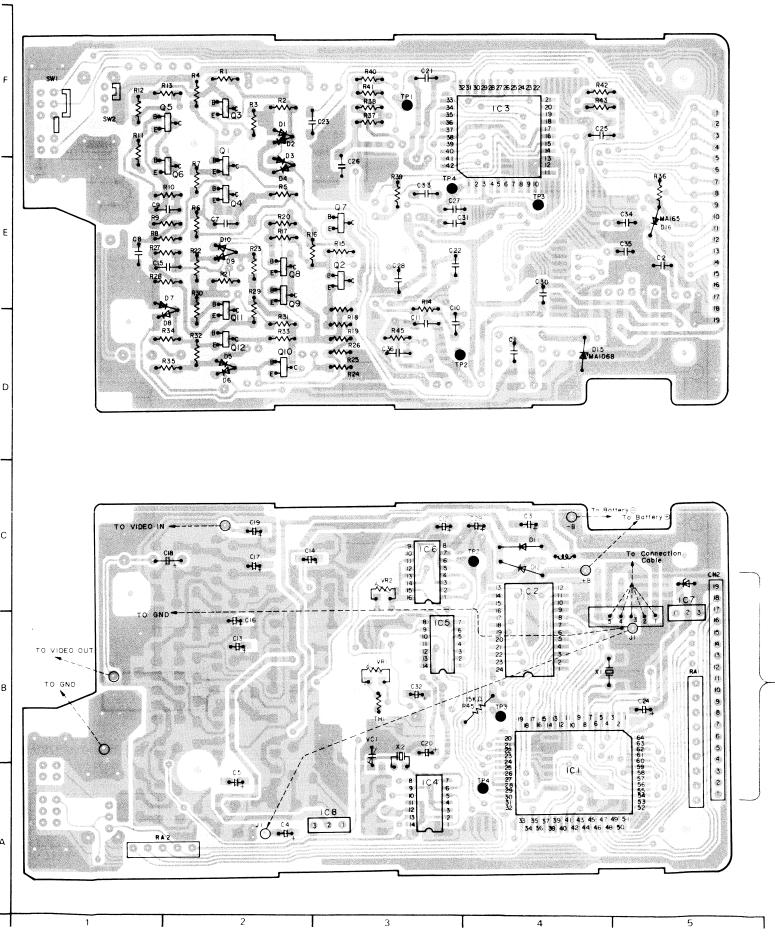
# SECTION 3: Block Diagram & Schematic Diagram

## 1-3-1 BLOCK DIAGRAM

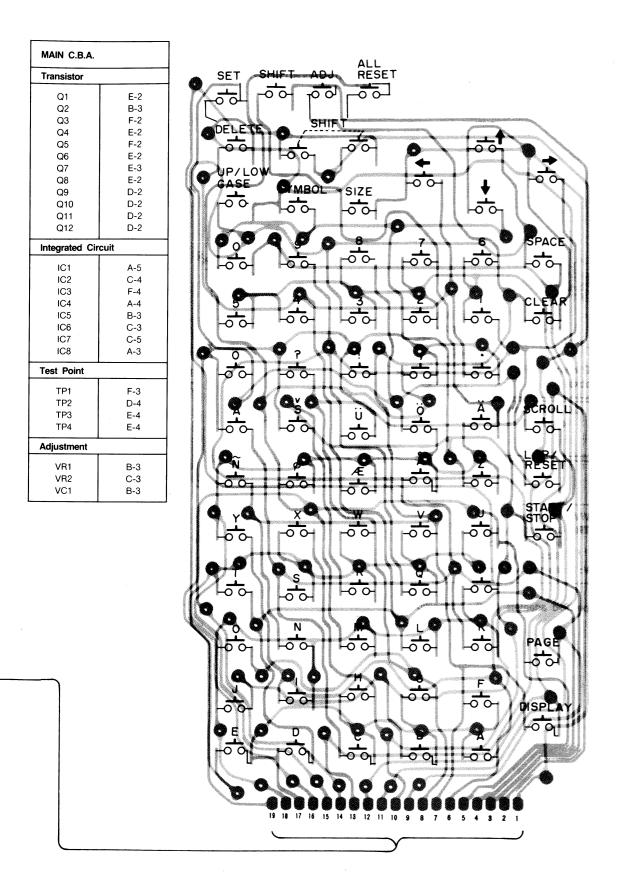


BACK UP	APPLOX·3.7V~4.8V
CPU RESET	VDD LESS THAN 3.3V
AUTO DATE INITIAL VALUE	12:00 1987. 1. 1
STOP WATCH	MAXIMUM 9:59:59:9 MINIMUM 1/10 sec.

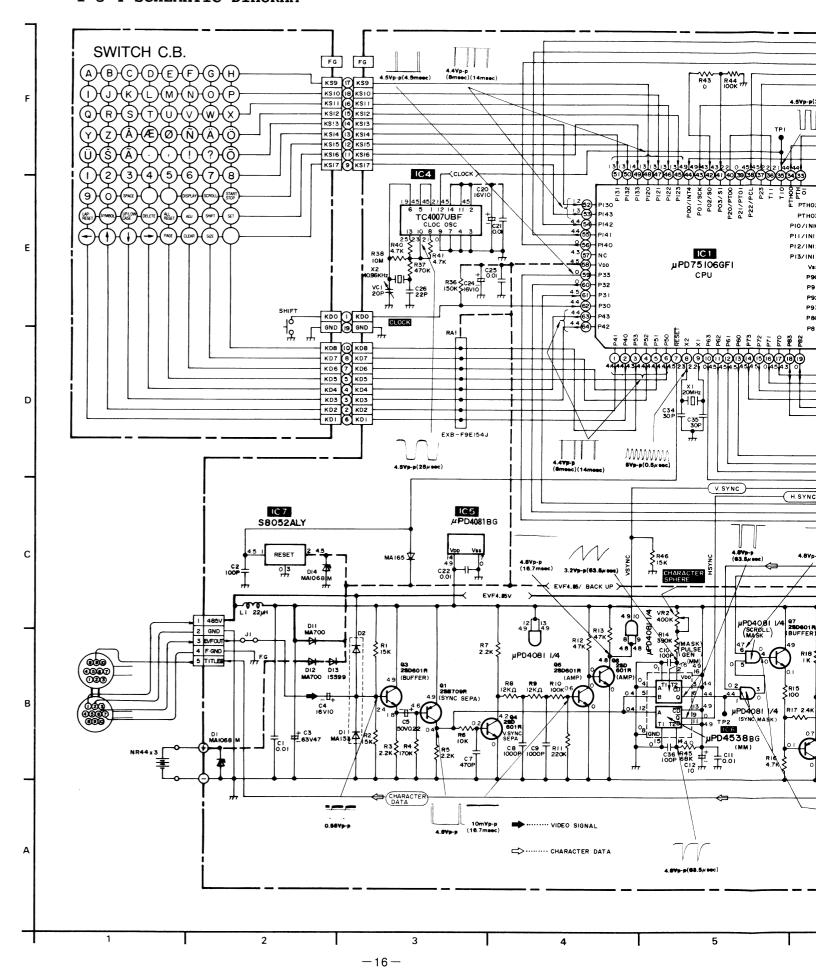
1-3-2 MAIN C.B.A. (VEP66051D, E)



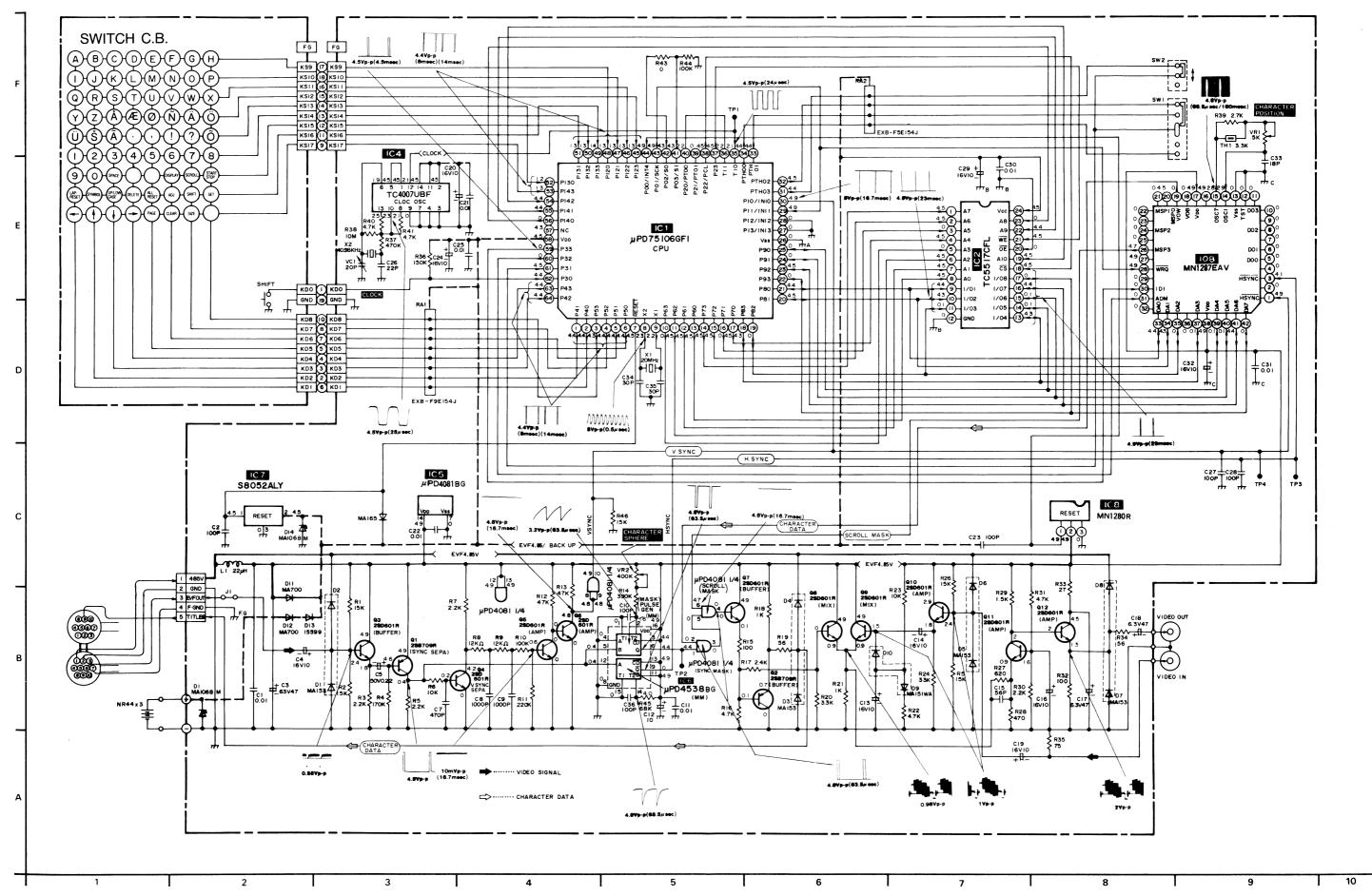
#### 1-3-3 SWITCH C.B.



#### 1-3-4 SCHEMATIC DIAGRAM



#### 1-3-4 SCHEMATIC DIAGRAM



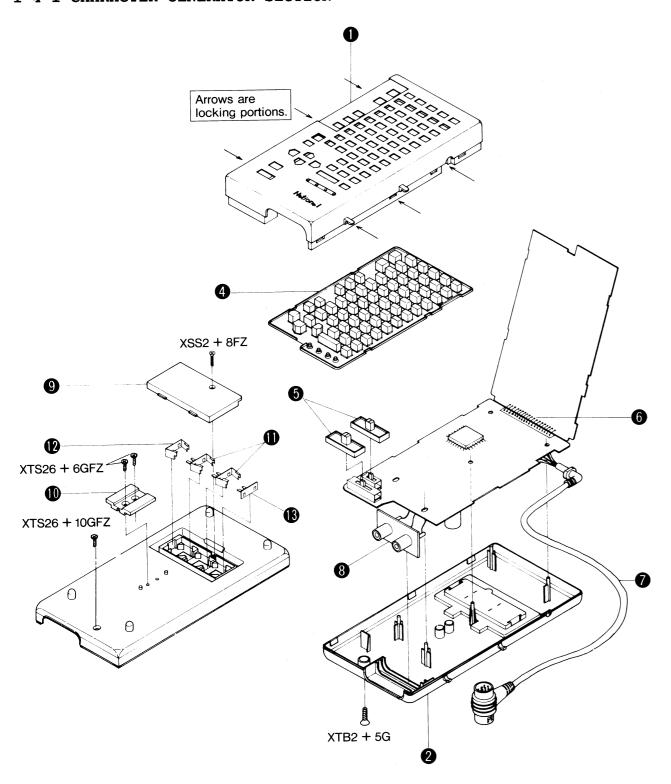
2-1

RF/AV – Adaptor Socket

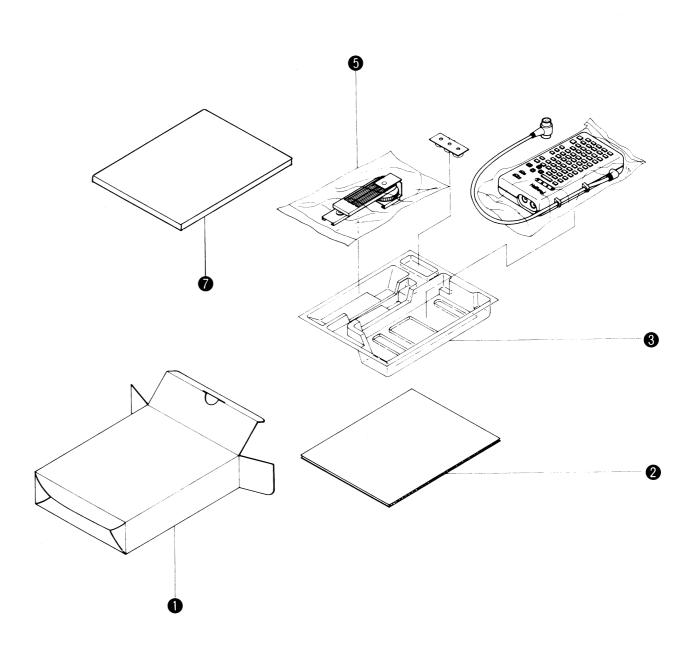
Note: Or

# **SECTION 4: Exploded Views**

# 1-4-1 CHARACTER GENERATOR SECTION

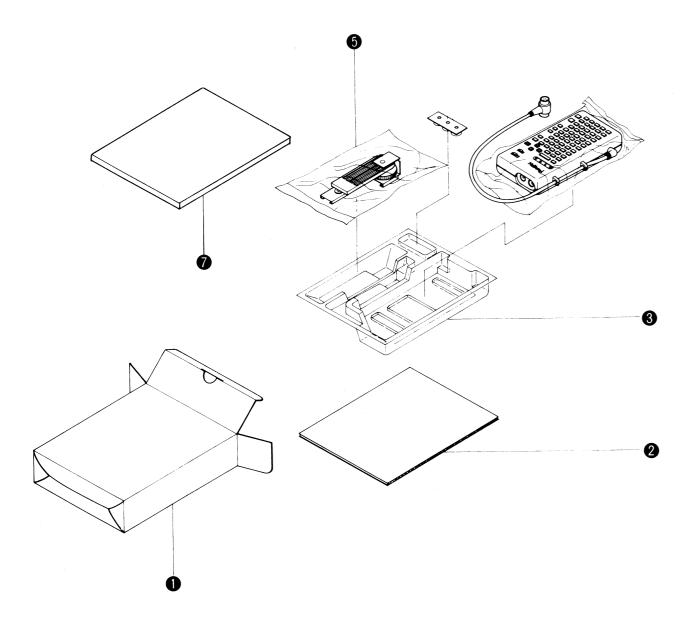


# 1-4-2 PACKING SECTION



**-19**-

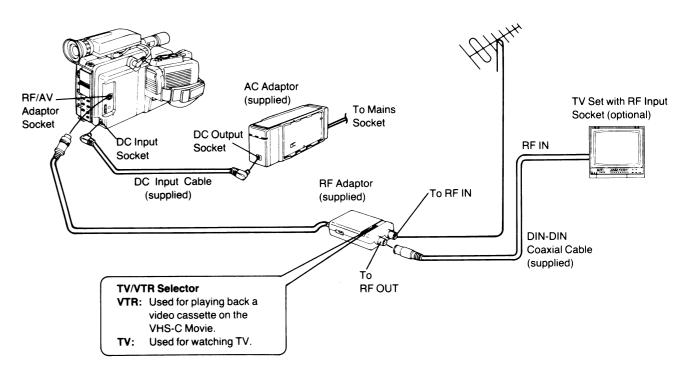
### 1-4-2 PACKING SECTION



# 2. VW-RFC1E, B, A, EN

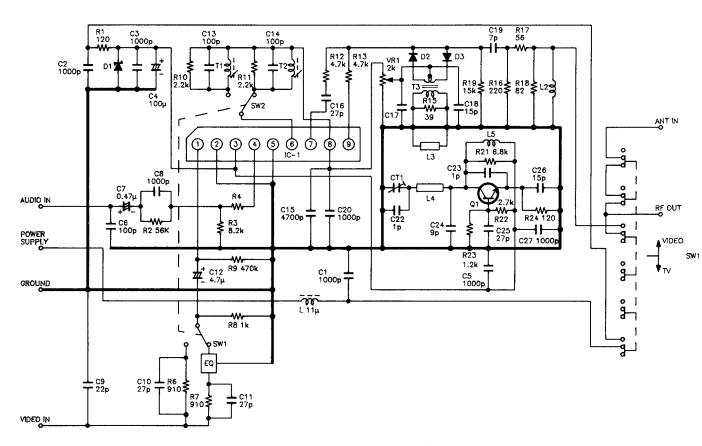
# 2-1 HOW TO ADJUST THE RF CONVERTER FREQUENCY

- (1) Make connection as shown in Fig.R-1.
  (2) Adjust the TV channel to no programme (bloadcasting) position with UHF 36CH+-4CH (E,B,EN) or VHF 0/1 (A).
  (3) Adjust the RF Adaptor Outpt Channel.

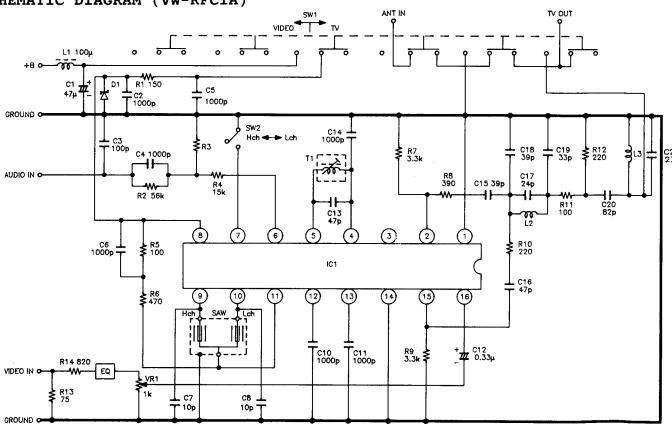


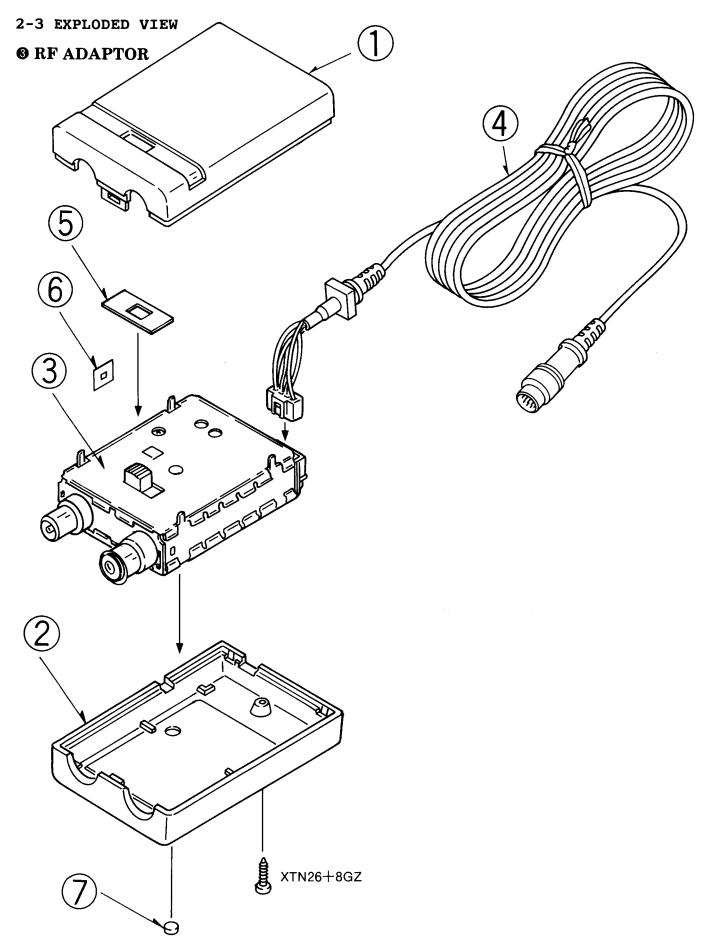
Note: Only use the specified adaptors for the connections.

# 2-2 SCHEMATIC DIAGRAM (VW-RFC1E, B, EN)



# SCHEMATIC DIAGRAM (VW-RFC1A)

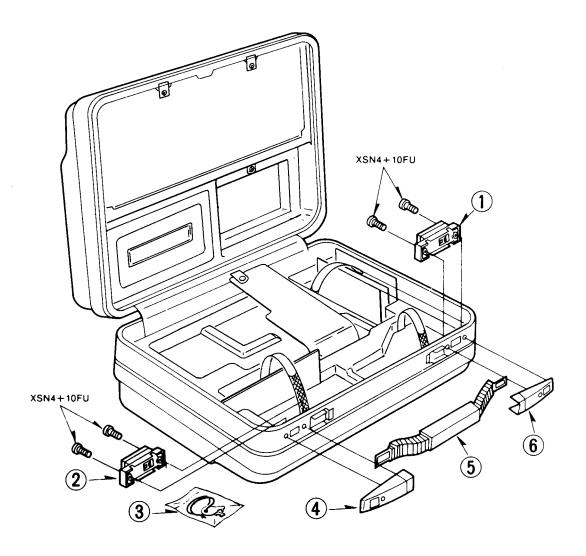




# 3. VW-SHMC1E, EN

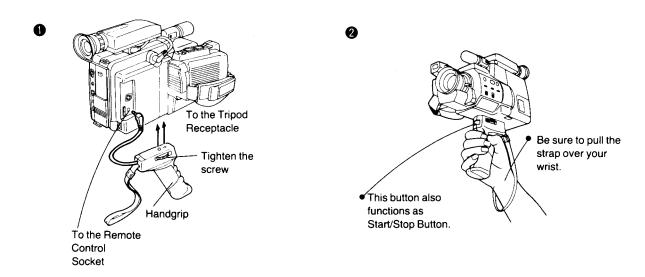
# 3-1 EXPLODED VIEW

# **3** SYSTEM CARRYING CASE



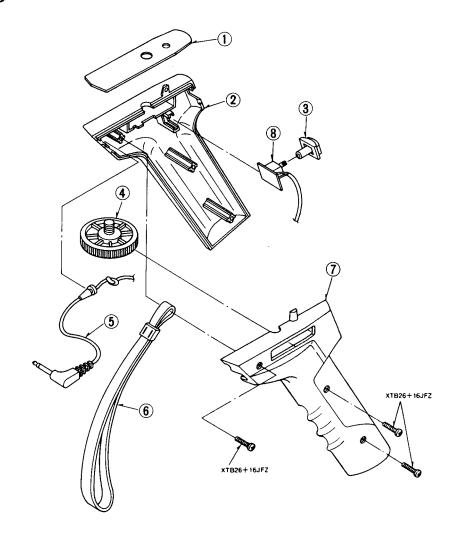
# 4. VW-GPC1E

## 4-1 HOW TO USE THE HANDGRIP



## 4-2 EXPLODED VIEW

# **4** HAND GRIP



# PARTS LIST

# MODEL NO: VW-CG1E/EN, VW-RFC1E/B/A/EN, VW-SHMC1E/EN, VW-GPC1E

# 1.VW-CG1E/EN Mechanical Replacement Parts List

Note:1.* Be sure to make your orders of replacement parts according to this list.  2.IMPORTANT SAFETY NOTICE				
Components identified with the mark have the special characteristics for safety. When replacing any of these components, use only the				
same type.				
			П	

ef. No.  1(1)  1(1)  2(1)  4(1)  5(1)  7(1)  8(1)  8(1)  9(1)  10(1)  11(1)  12(1)	Part No. VKM1170 VKM1253 VKM1039 VSP0301 VGU4094	UPPER CASE UPPER CASE	+	Remarks VW-CG1E						
1(1) 1(1) 2(1) 4(1) 5(1) 7(1) 8(1) 8(1) 9(1) 10(1) 11(1)	VKM1170 VKM1253 VKM1039 VSP0301	UPPER CASE UPPER CASE	1	<del></del>	<b> </b>	_				
1(1) 2(1) 4(1) 5(1) 7(1) 8(1) 8(1) 9(1) 10(1) 11(1)	VKM1253 VKM1039 VSP0301	UPPER CASE	+	VW-CG1E	1		ŧ			
2(1) 4(1) 5(1) 7(1) 8(1) 8(1) 9(1) 10(1) 11(1)	VKM1039 VSP0301	<del></del>			i <b>j</b>				_	
4(1) 5(1) 7(1) 8(1) 8(1) 9(1) 10(1) 11(1)	VSP0301	DATE OF ST	1	VW-CG1EN	L					
5(1) 7(1) 8(1) 8(1) 9(1) 10(1) 11(1)		BOTTOM CASE	1							
7(1) 8(1) 8(1) 9(1) 10(1) 11(1)	VGU4094	LUBBER CONTACT	1						_	
8(1) 8(1) 9(1) 10(1) 11(1)		SWITCH KNOB	1							
8(1) 9(1) 10(1) 11(1)	VJA0490	OUTPUT CABLE	1							
9(1) 10(1) 11(1)	VJA0671	VIDEO TERMINAL	1	VW-CG1E						
10(1) 11(1)	VJA0675	VIDEO TERMINAL	1	VW-CG1EN						
10(1) 11(1)	VKF1003	BATTERY COVER	1							
	VMP1514	SHOE INSTALLATION BOARD	1							
	VJR0403	BATTERY TERMINAL (COM)	1							
	VJR0404	BATTERY TERMINAL (+)	1							
13(1)	VJR0405	BATTERY TERMINAL (-)	1							
14(2)	VPK0753	PACKING CASE	1	VW-CG1E						
14(2)	VPK0766	PACKING CASE		VW-CG1EN						
15(2)	VPN2048	PAD	1							
16(2)	VPN2030	CUSHION	1							
17(2)	VFC0151	SHOE ADAPTOR	1							
18(2)	VQT2484	OPERATING INSTRUCTION	+	VW-CC1E					$\Box$	
18(2)	VQT2485	OPERATING INSTRUCTION	-	VW-CG1EN						
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## 2.VW-CG1E/EN Electrical Replacement Parts List

Note:1.\* Be sure to make your orders of replacement parts according to this
11st.
2. IMPRITANT SAFETY NOTICE
Components identified with the mark (!) have the special characteristics for safety. When replacing any of these components, use only the same type.
3. Unless otherwise specified,
All resistors are in OHMS ,K-1,000 OHMS. All capacitors are in MICRO-FARADS(uf),PaulF.

FARADS(uf),P=uuF. 4. The P.C. Board units marked width' "show below the main assembled part 5. Printed circuit board assembly with mark(NLA) is no longer available after discontinuation of the product.	s.

Company   Comp	11s 2. IMF	st. РОВТ	ANT SAFETY NO	TICE			Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	Con	npon	ents identific or safety. Who	ed with the mark (!) have t	he si	pecial characteris- ments use only the	D1 (D2)	MA153	DIODE	1	
Description   Company	San	mo t	VDG				D3(D4)	MA153	DIODE	1	
Description   Company	All	l re	sistors are i	OHMS ,K-1,000 OHMS. All c	apac	itors are in MICRO-	D5 (D6)	MA153	DIODE	1	
March   Marc	4. The	e P.	C. Board units	marked width ' show below	the	main assembled parts.	D7 (D8)	MA153	DIODE	1	
March   Marc	aft	inte ter	discontinuati	on of the product.	15 N	o longer available	D9(D10)	MA153	DIODE	1	***************************************
Interface   Part No.   Part No.				y				MA700	DIODE	1	
MPRAGESID PAIN C.B.A.   1,04-COLDS   986   1000E   1   1   1   1   1   1   1   1   1			ļ							+	<del> </del>
NEWFOOD   PAIN C. P. A.   1 W-CGIP	Ref.No.	ļ.	Part No.	Part Name & Description	Pcs	Remarks	D14	<del> </del>	<del></del>	+	
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		<del> </del>	VEP66051D	MAIN C.B.A.	1	VW-CG1EN		MA165	DIODE	1	
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		+	VEPOOUSE	PAIN C.B.A.	++	W-CGIE	<del>                                   </del>	1	INTEGRATED CIRCUITS		
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SERAIOSCOO   B. CAPACITOR   10V   10V   1   1   1   1   1   1   1   1   1		$\vdash$			+		<u> </u>	+	<del>                                       </del>	-	
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C12	C10	1	+	<del> </del>	1		Q10	2SD601R	TRANSISTOR	1	
C13	C11		ECUX1H103KBM	CHIP 50V 0.01U	1		Q11	2SD601R	TRANSISTOR	1	
C14	C12	1	ECEA1CKK100	E. CAPACITOR 16V 10U	1		Q12	2SD601R	TRANSISTOR	1	
C15	C13		ECEA1CKK100	E. CAPACITOR 16V 10U	1						
C16	C14		ECEA1CKK100	E. CAPACITOR 16V 10U	1						
C17	C15		ECUX1H560JCM	CHIP 50V 56P	1						
RI	C16	L	ECEA1CKK100	E.CAPACITOR 16V 10U	1					<u> </u>	
C19	C17	┖	ECEAOJKS470		+					<u> </u>	
R2   RECAICKION   R. CAPACITOR   16V   10U   1		$\perp$	ECEAOJSS471		+		ı <b></b>			+	
R4		1_	+	<del></del>	+		1 <del> </del>	<del></del>	<del></del>	+	
R5		1			+		l	+		+	
R6   ERJ8CYJ103   CHIP   1/8W   10K   1		1						+	<u> </u>	+	
R7		┼			+-		l —————	. <del>.   </del>			<del></del>
R8					+						<del>                                       </del>
R9		-	<del></del>		$\overline{}$		4 <b></b>		+	+	
C27 ECUXIHIOLICM CHIP 50V 100P 1 R10 ERJBCCYJ104 CHIP 1/8W 100K 1 C28 ECUXIHIOLICM CHIP 50V 100P 1 R11 ERJBCCYJ224 CHIP 1/8W 220K 1 C29 ECEALCKKIOO E. CAPACITOR 16V 10U 1 R12 ERJBCCYJ473 CHIP 1/8W 47K 1 C30 ECUXIHIOJKM CHIP 50V 0.01U 1 R13 ERJBCCYJ473 CHIP 1/8W 47K 1 C31 ECUXIHIOJKM CHIP 50V 0.01U 1 R14 ERJBCCYJ394 CHIP 1/8W 390K 1 C32 ECEALCKKIOO E. CAPACITOR 16V 10U 1 R15 ERJBCCYJ101 CHIP 1/8W 10O 1 C33 ECUXIHIBOLICM CHIP 50V 18P 1 R16 ERJBCCYJ472 CHIP 1/8W 4.7K 1 C34 ECUXIHIBOLICM CHIP 50V 30P 1 R17 ERJBCCYJ242 CHIP 1/8W 1. C35 ECUXIHISOLICM CHIP 50V 30P 1 R18 ERJBCCYJ102 CHIP 1/8W 1. C36 ECUXIHIOLICM CHIP 50V 100P 1 R19 ERJBCCYJ332 CHIP 1/8W 56 1 R20 ERJBCCYJ102 CHIP 1/8W 3.3K 1 R21 ERJBCCYJ102 CHIP 1/8W 4.7K 1 R22 ERJBCCYJ102 CHIP 1/8W 4.7K 1 R23 ERJBCCYJ102 CHIP 1/8W 1. R24 ERJBCCYJ102 CHIP 1/8W 1. R25 ERJBCCYJ102 CHIP 1/8W 1. R26 ERJBCCYJ102 CHIP 1/8W 1. R27 ERJBCCYJ103 CHIP 1/8W 1. R28 ERJBCCYJ103 CHIP 1/8W 1. R29 ERJBCCYJ103 CHIP 1/8W 1. R20 ERJBCCYJ103 CHIP 1/8W 1. R21 ERJBCCYJ103 CHIP 1/8W 4.7K 1 R22 ERJBCCYJ103 CHIP 1/8W 4.7K 1		+	+	<del></del>			4 <del></del>		· · · · · · · · · · · · · · · · · · ·	-	
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C32 ECEAICK(100 E.CAPACITOR 16V 10U 1 R15 ERJ8CYJ101 CHIP 1/8W 10O 1 C33 ECUX1H180JCM CHIP 50V 18P 1 R16 ERJ8CYJ472 CHIP 1/8W 4.7K 1 C34 ECUX1H30OJCM CHIP 50V 30P 1 R17 ERJ8CCYJ242 CHIP 1/8W 2.4K 1 C35 ECUXH30OJCM CHIP 50V 30P 1 R18 ERJ8CCYJ102 CHIP 1/8W 1K 1 C36 ECUXH10JJCM CHIP 50V 100P 1 R19 ERJ8CCYJ560 CHIP 1/8W 56 1 R20 ERJ8CCYJ332 CHIP 1/8W 3.3K 1 R21 ERJ8CCYJ102 CHIP 1/8W 1K 1 R22 ERJ8CCYJ472 CHIP 1/8W 4.7K 1 R23 ERJ8CCYJ103 CHIP 1/8W 1K 1 R24 ERJ8CCYJ103 CHIP 1/8W 1K 1 R25 ERJ8CCYJ103 CHIP 1/8W 1K 1 R26 ERJ8CCYJ103 CHIP 1/8W 1K 1 R27 ERJ8CCYJ103 CHIP 1/8W 1K 1 R28 ERJ8CCYJ103 CHIP 1/8W 1K 1		+			-	<del>                                     </del>	<b>{</b>			+	
C33		+					ł <b>———</b>	+		-	
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C36 ECUXIHIO1JCM CHIP 50V 100P 1 R19 ERJ8CCYJ560 CHIP 1/8W 56 1 R20 ERJ8CCYJ332 CHIP 1/8W 3.3K 1 R21 ERJ8CCYJ102 CHIP 1/8W 1K 1 R22 ERJ8CCYJ472 CHIP 1/8W 4.7K 1 R23 ERJ8CCYJ103 CHIP 1/8W 10K 1 R23 ERJ8CCYJ103 CHIP 1/8W 10K 1		+-	<del></del>				I —————	-	<del> </del>	┿	<del>                                       </del>
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		T			T		R22	ERJ8GCYJ472	CHIP 1/8W 4.7K	1	
DIODES		$\top$			T		R23	ERJ8GCYJ103	CHIP 1/8W 10K	1	
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SURPECIAZZZ   CHIP   1/99   2.78   1											
33   SURCOLORY   SURF   1/94   1/94   1/95   1											-
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1989   PURCONTOCO   STEP   1/96   1.76   1	36	ERJ8GCYJ154	CHIP 1/8W 150K							<del> </del>	
199	37	ERJ8GCYJ474	CHIP 1/8W 470K	$\rightarrow$						1	
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11 VSX0250 CRYSTAL OSCILLATOR 1				+		11	$\vdash$	<del>                                     </del>		$\top$	
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1(3)	_	VKM1195	UPPER CASE		W-RFC1E,B,A		<u> </u>		 <u> </u>	
2(3)		VKM1294 VYK1792	UPPER CASE BOTTOM CASE	-	VW-RFC1EN VW-RFC1E		-		-	<del></del>
2(3)		VYK1791	BOTTOM CASE		W-RFC1B		<del> </del>		<u> </u>	
2(3)		VYK1793	BOTTOM CASE	-	VW-RFC1A	11		-		
2(3)		VYK1794	BOTTOM CASE	_	VW-RFC1EN					
3(3)	<u> </u>	VEQ0658	RF CONVERTER UNIT	$\overline{}$	VW-RFC1E,EN	ļ	<u></u>		<u> </u>	
3(3)		VEQ0657	RF CONVERTER UNIT	_	VW-RFC1B VW-RFC1A	-			ļ	
3(3)		VEQ0655 VJA0474	INPUT CABLE	1	<del></del>	ł <del></del>			 -	
5(3)		VGF0260	LIGHT SHUT PLATE (1)	1		1				
6(3)		VGF0261	LIGHT SHUT PLATE (2)	1						
7(3)		VGF0262	RUBBER CAP	1	VW-RFC1E,B,EN				 <u></u>	ļ
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# 4.VW-RFC1E/B/A/EN Electrical Replacement Parts List

Note: 1.* I	e s	ure to make y	our orders of replacement partice ad with the mark (!) have the an replacing any of these oscified, n OFMS. All call of the control of the product.	rts	according to this						
2. IMI	PORT	ANT SAFETY NO	TICE ed with the mark (!) have th	e s	pecial characteris-	<b></b>				ļ	
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3.Uni Ali	less l re	otherwise spansistors are li	ecified, n OHMS ,K=1,000 OHMS. All ca	pac	itors are in MICRO-					+	
FAI 4. The	RADS	(uf),P=uuF. C.Board units	marked width ! show below t	ihe:	main assembled parts.		T			T	
5.Pri afi	inte	d circuit boa discontinuatio	nd assembly with mark(NLA) in of the product.	S De	o longer available						
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Ref.No.		Part No.	Part Name & Description	Pcs	Remarks	<u> </u>	-			┼	<u> </u>
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	-		RF COVERTER UNIT		VW-RFC1E/B/EN		ļ			_	
-		VEQ0656	RF COVERTER UNIT	1	VW-RFC1A	<b> </b>	-			<del> </del>	
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D3			DIODE		VW-RFC1E/B/EN						
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1C1			IC CREATED CIRCUIT	1	VW-RFC1E/B/EN		-			┢	
IC1	-		IC		VW-RFC1A						
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			TRANSISTOR							-	
Q1			TRANSISTOR	1	VW-RFC1E/B/EN						
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			NOTE: THE OTHER PARTS FOR								
			RF CONVERTER UNIT								
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			SPARE PARTS				-				
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		Z/EN Mechani			Parts I	ist	;			
ote:1.* Be	sure to make	your orders of replacements office ied with the mark (!) he hen replacing any of the	ent parts a	according to this						
2. IMPO Como	RTANT SAFETY N opents identif	OTICE ied with the mark ha	ave the spe	cial characteris-	$\vdash$	+			$\vdash$	
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f.No.	Part No.	Part Name & Descript	ion Pcs	Remarks		丄				
1(4)	VYQ0034	LOCK BOX (R)	1							
2(4)	VYQ0036	LOCK BOX (L)	1							
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3(4)	VYC0096	KEY			<del></del>	+				
4(4)	VYQ0035	LOCK UNIT (L)	1			_				
5(4)	VYH0093	HANDLE UNIT	1							
6(4)	VYQ0033	LOCK UNIT (R)	1							
	VPG3906	PACKING CASE	1 1	W-SHMC1E						
	VPG3907	PACKING CASE		W-SHMC1EN						
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# 6.VW-GPC1E Mechanical Replacement Parts List

Note: 1.* Be sure to make your orders of replacement parts according to this list.	Ш		
2.IMPORTANT SAFETY NOTICE	ΙL		
Components identified with the mark have the special characteris-	ır		
tics for safety. When replacing any of these components, use only the	ΙL		
same type.	П		i

2(5) M 3(5) M 4(5) M 5(5) W 6(5) W 7(5) M 8(5) W	VKH0183 VGU4027 VKGW0069 VJA0479 VFBW0014 VKH0182 VEP60096A VQT2527	LEATHER SHEET  GRIP (R)  TALLY SWITCH BUTTON  HANDLE HOLDER  PLUG CODE  HAND STRAP  GRIP (L)	Pcs	Remarks						
1(5) W 2(5) W 3(5) W 4(5) W 5(5) W 6(5) V 7(5) W 8(5) W	VCQ1443 VKHO183 VCU4027 VKGW0069 VJA0479 VFBW0014 VKHO182 VEP60096A VQT2527	LEATHER SHEET  GRIP (R)  TALLY SWITCH BUTTON  HANDLE HOLDER  PLUG CODE  HAND STRAP  GRIP (L)  SA SWITCH C.B.A.  OPERATING INSTRUCTION	1 1 1 1 1 1 1	Remarks						
1(5) W 2(5) W 3(5) W 4(5) W 5(5) W 6(5) W 8(5) W	VCQ1443 VKHO183 VCU4027 VKGW0069 VJA0479 VFBW0014 VKHO182 VEP60096A VQT2527	LEATHER SHEET  GRIP (R)  TALLY SWITCH BUTTON  HANDLE HOLDER  PLUG CODE  HAND STRAP  GRIP (L)  SA SWITCH C.B.A.  OPERATING INSTRUCTION	1 1 1 1 1 1 1	Remarks						
1(5) W 2(5) W 3(5) W 4(5) W 5(5) W 6(5) W 8(5) W	VCQ1443 VKHO183 VCU4027 VKGW0069 VJA0479 VFBW0014 VKHO182 VEP60096A VQT2527	LEATHER SHEET  GRIP (R)  TALLY SWITCH BUTTON  HANDLE HOLDER  PLUG CODE  HAND STRAP  GRIP (L)  SA SWITCH C.B.A.  OPERATING INSTRUCTION	1 1 1 1 1 1 1							
2(5) W 3(5) W 4(5) W 5(5) W 6(5) W 7(5) W 8(5) W	VKH0183 VCU4027 VKGW0069 VJA0479 VFBW0014 VKH0182 VEP60096A VQT2527	GRIP (R) TALLY SWITCH BUTTON HANDLE HOLDER PLUG CODE HAND STRAP GRIP (L) SA SWITCH C.B.A. OPERATING INSTRUCTION	1 1 1 1 1 1							
3(5) W 4(5) W 5(5) W 6(5) W 7(5) W 8(5) W	VCU4027 VKGW0069 VJA0479 VFBW0014 VKH0182 VEP60096A VQT2527	TALLY SWITCH BUTTON  HANDLE HOLDER  PLUG CODE  HAND STRAP  GRIP (L)  SA SWITCH C.B.A.  OPERATING INSTRUCTION	1 1 1 1 1							
4(5) V. 5(5) V. 6(5) V. 7(5) W. 8(5) V.	VKGW0069 VJA0479 VFBW0014 VKH0182 VEP60096A VQT2527	HANDLE HOLDER PLUG CODE HAND STRAP GRIP (L) SA SWITCH C.B.A. OPERATING INSTRUCTION	1 1 1 1							
5(5) V. 6(5) V. 7(5) V. 8(5) V.	VJA0479 VFBW0014 VKH0182 VEP60096A VQT2527	PLUG CODE  HAND STRAP  GRIP (L)  SA SWITCH C.B.A.  OPERATING INSTRUCTION	1 1 1 1							
6(5) V 7(5) V 8(5) V	VFBM0014 VKH0182 VEP60096A VQT2527	HAND STRAP GRIP (L) SA SWITCH C.B.A. OPERATING INSTRUCTION	1 1 1							
6(5) V 7(5) V 8(5) V	VFBM0014 VKH0182 VEP60096A VQT2527	HAND STRAP GRIP (L) SA SWITCH C.B.A. OPERATING INSTRUCTION	1 1 1							
7(5) V 8(5) V	VKH0182 VEP60096A VQT2527	GRIP (L) SA SWITCH C.B.A. OPERATING INSTRUCTION	1 1							
8(5) V	VEP60096A VQT2527	SA SWITCH C.B.A. OPERATING INSTRUCTION	1							
v	VQT2527	OPERATING INSTRUCTION	1							
V	VPKO830	PACKING CASE	1							
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